

.....

X= -93 0= -838937

A= (-14741840673008702264214243 , 12851547074021778803768)
B= (16753846583765590412891247272499811470 , -29171269222005304325433789340645896)

J-INVARIANT

J= (3057609583713508542602488617502797324313995693577926260156069/46787323773693452171727642695944699075030408896738304 , -24774652568118545895441199174472001179656977472923714400020307/844136895524977264082350129520234240712059477314952480768)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 11 2.

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V). HERE IS

U= (2361205937407 , -89863710)
V= (4764648456910080 , -25077097141632)

MU-P-VALUES

P	MU-P	TYPE OF DECOMPOSITION
3	1	0

.....

```

.....
b= -171/2      0= -1046022
A= ( -22546656772120169795777414203 , 5775955659718607174829272 )
B= ( 979522078102011004575443343714093714977590 , -315570198553050220648352007707831843336 )

```

J-INVARIANT

```

-----
J= ( 200918550302462042707382484239700701493079348236801747410083241595631:66420121:0489601670295432742402309131236606922642710974
529536 , -5166886190807988908549085978709654593746693848473500760344892159325901/81322:46822150487:2062229494087691207920852051806
9294037)498269696 )

```

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 11 2.

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V). HERE IS

```

Q= ( 92677649492683 , -10273787340 )
R= ( 1481040353603123200 , -2115785362290176 )

```

MU-P-VALUES

```

-----

```

P	MU-P	TYPE OF DECOMPOSITION
3	1	0

```

.....

```

X= -78 Q= -124710
A= (-459526359106217165083 , 1122537124096918956)
B= (277428358931464803216586644383650 , -14275838479060749818535206348)

J-IN VARIANT

J= (34503347120666348587100108551783676610962501509/1314847244328690539559913663341249109464 , +717325081709093655459312850054633
635271690566749/16819525949432609382050415581461262445865488)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS $2 \text{ MOD } 11 \text{ } 2$.

A GENERATOR OF THE TORSION GROUP IS THE POINT $Q=(U,V)$. HERE IS

U= (13283644353 , -13902690)
V= (3278053559360 , -40975666992)

MU-P-VALUES

p	MU-P	TYPE OF DECOMPOSITION
3	1	D
11	1/3	R

.....

X = -63 Q = -265907

A = (-156850022723993562495845 , 284987638179518705208)

B = (16285189601479850570284656247323630 , -67712060226101755075345145972616)

J-INVARIANT

.....

J = (3567724356058467309153113443891276231220327163414035516974174597251967262820728142287256678804486853868544 , -475250721081845030814014853592546004927057440738443290377/8524195000110763273254697718902084346747802035424848)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS $Z \text{ MOD } 11 Z$.

A GENERATOR OF THE TORSION GROUP IS THE POINT $Q = (U, V)$. HERE IS

U = (247634713527 , -189514860)

V = (47491851311380 , -3647629625472)

MU-P-VALUES

.....

P	MU-P	TYPE OF DECOMPOSITION
3	1	D

.....

.....

X = -11172 O = -2932142

A = (-148322846383696772627512205 , 85935292201588933924632)
B = (451063179579899015702344728225113440230 , -625573623630733589952311250291611656)

J-INvariant

.....

J = (964565469751115255070020532498214109137723144633310489754161231/221869034819595404619196818335697967877152901084027677696 , -29448114815869423518037995504853992424693597032571164218660829761/11722672525728142798459845093586957830757250681781358378745836)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 11 7.

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V). HERE IS

U = (7652054905323 , -1827801300)
V = (114876298174076160 , -249751083639296)

MU-P-VALUES

.....

P	MU-P	TYPE OF DECOMPOSITION
3	1	D

.....

X= -48 D= -7487

A= (-4503945842743768 , 78722074423512)
B= (123192824305315098997440 , -3807512683587006216896)

J-INVARIANT

J= (115652937163374554077253829190200:9/58456723297136787899188721664 , -25820327005599691450676115909830589/911924883435645892673440579584)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 11 Z.

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V). HERE IS

U= (5090038 , -249990)
V= (2911331400 , -116453376)

MU-P-VALUES

P	MU-P	TYPE OF DECOMPOSITION
3	1	0

.....

X = -81/2 D = -1167602

A = (-4019006415082081377157803 , 4126755734080799311512)
B = (1750097173600762046641428093201010950 , -4980924088102355896906346213297416)

J-INVARIANT

J = (104213207758722512012402105722280278817464459800370019442831/135762610663783665018735904658753720112498675094245376 , -451013
962596996017940450417614827407180857972023354251500419173914851506180865790132399360539245553165867615017659662336)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 11 Z.

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V). HERE IS

U = (1269912870363 , -520099980)
V = (18007056379607010 , -52961930528256)

MU-P-VALUES

P	MU-P	TYPE OF DECOMPOSITION
3	1	D

.....

X= -33 D= -40277

A= (-97286551800191053043 , 570340376712531118)
B= (180547136378970575681459723390 , -3400714038642968435663196936)

J-INVARIANT

J= (23081878078356547005660578270694166126924829679/99920251107949131440157132694313632287744 , -73978788796831261085001634316621
2970026394896164772684057841564481569819980898434652790513379328)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 X 2.

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V). HERE IS

U= (6245579267 , -14387920)
V= (10615226307840 , -151646090112)

MU-P-VALUES

P	MU-P	TYPE OF DECOMPOSITION
3	1	D

.....

X= -51/2 D= -306662

A= (-22755852412611593267803 , 51015758265353823192)
B= (599277646199352321010700343549270 , -4674444374596506368925612845576)

J-INvariant

.....

J= (135962426771351684561738301589836710281373593900333631/3264194333651156272823224061496982497857833107456 , -13932474849657378
848500:76993788452474736375206316977621/39287842999825316889760324804177681344216879281340*16)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 2 : Z.

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V). HERE IS

U= (94498453203 , -82832460)
V= (2213917359359520 , -5517806178816)

MU-P-VALUES

.....

P	MU-P	TYPE OF DECOMPOSITION
3	1	D

.....

.....

X= -18 D= -1778
A= (-31584258696483 , 946473430716)
B= (27935153759983004730 , -3249685944494127460)

J-INVARIANT
.....

J= (-51041843178930729993439541227/53585854749245314242769968 , -269733665701900247406006976613059/233419903287712588841505980608)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 11 2.

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V), WHERE IS

U= (3360813 , -41250)
V= (623557440 , -31177872)

MU-P-VALUES
.....

P	MU-P	TYPE OF DECOMPOSITION
5	I	D

.....

.....

X= -21/2 D= -25922

A= (-2148380757105642203 , 14255013145683672)
B= (500300504071139897603711190 , -13680950905402255481552156)

J-INVARIANT

J= (-19251505485216355859249571466895708040251369/12932505376318528823797439994563090087936 , -1167364654061201941496113428157874
224024980051/31505583091839936214770363826735687454212096)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 11 2.

A GENERATOR OF THE TORSION GROUP IS THE POINT G=(U,V). HERE IS

U= (720837843 , -2783740)
V= (7796465497600 , -77964654976)

MU-P-VALUES

P	MU-P	TYPE OF DECOMPOSITION
3	1	0

.....

.....

X= -5 D= -47

A= (4508114157 , -1037989512)
B= (462806328242750 , -28665222646856)

J-INVARIANT

J= (-113977798969979085078031/475700597886849076224 , -735439783201682959351517/19979425111247661201408)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 11 2.

A GENERATOR OF THE TORSION GROUP IS THE POINT O=(U,V). HERE IS

U= (22767 , -7980)
V= (19595520 , -1959552)

MU-P-VALUES

P	MU-P	TYPE OF DECOMPOSITION
3	1	0

.....

.....

X= 9 D= 421

A= (-4707190423107 , -274330514760)
B= (5362958847045297294 , 214662519340095880)

J-INvariant
.....

J= (-28314081712745745065357032159/3194973414480310000000000 , -118672039344637785137406299777/28754778730322390000000000)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 11 Z.

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V). HERE IS

U= (-951897 , -74220)
V= (-1587237120 , -113374060)

MU-P-VALUES
.....

P	MU-P	TYPE OF DECOMPOSITION
3	1	D

.....

#####

X= 33/2 D= 54706

A= (-20032645178899364747 , 44465893268901409)
B= (52305971582180600436993582886 , -69033719104614702124129800)

J-INVARIANT

J= (-57816296690638057894628800706574043885929585172623568989873391426254062500:000000000000 , 5806690655683490272936047736149905
585547805575979523555469510164773022688730000000000000000)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z X 2 Z.

A GENERATOR OF THE TORSION GROUP IS THE POINT G=(U,V), HERE IS

U= (-317534293 , -14248300)
V= (-47543098521600 , -409854297600)

MU-P-VALUES

P	MU-P	TYPE OF DECOMPOSITION
3	1	0

#####

B-17

X= 53/2 D= 251066

A= { -6579279434525077745547 , 14931518587507903320 }
B= { 354134003883766131600238099612086 , -37913833204272358699438111240 }

J-INvariant

J= { -1085596668156768537605150087785576063698500474550017657912502286969488724017980171508160000000000 , 20593693640560118597813131817081630505037232832006197627648527181769041842713153083618784640000000000 }

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS $Z \text{ MOD } 11 \times Z$.

A GENERATOR OF THE TORSION GROUP IS THE POINT $Q=(U,V)$. HERE IS

U= { 18975203427 , -95137740 }
V= { -962068042414080 , -4908310420480 }

X= 27

D= 16783

A= { -2025511267078794248 , 17972325196230328 }
B= { 1911548093729682842818833710 , -12301605233657755758650376 }

J-INvariant

J= { -21607399747175756667528454495162948091702131/119234367892742663024489128401805169664 , 20722944212161339225447368617352118125061413/148089081922786387476415497475042020722680 }

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS $Z \text{ MOD } 11 \times Z$.

A GENERATOR OF THE TORSION GROUP IS THE POINT $Q=(U,V)$. HERE IS

U= { 345852087 , -6407340 }
V= { -2112159110400 , -42243182200 }

B-18

X= 85/2 D= 21094

A= (-1734675982013260321506747 , 13665657856553664919400)
B= (1390346452497313610235506394992896886 , -9440400521011939675199547005055800)

J-[NYARIANT

J= (-7321524129589733852303169570634839531716996259826738004761/47849942426685528255571752622079906250000000000000000 , 1256446066
341291449815504705208404691397047832481307178599763/119146356642416965356373664028978966562505000000000000)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS $2 \times \mathbb{Z} \times \mathbb{Z}$.

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V). HERE IS

U= (521665965507 , -3998049300)
V= (-15548712759244800 , -344433510489600)

X= 42 D= 58

A= (-119967714729212283 , 17967151144070892)
B= (25201009688896717401023410 , -3269732649039664998928396)

J-[NYARIANT

J= (-278508431075626679689703352641660912442/171577197331461890394501344225763 , 934732956679065905768734952377761447235687/43613
9531056210848435586326149083968)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS $2 \times \mathbb{Z} \times \mathbb{Z}$.

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V). HERE IS

U= (138227073 , -19895570)
V= (-63552001920 , -27137100816)

#####

X = -100 D = -64999

A = (-2059596526590098651 , 6243323858521776)
B = (891044382088667813190552502 , -5289846871075984460148752)

J-INVAR3NN7

J = (183446455171523869904409435838465803507641/193041318774333310546075000000000 , -167469527957810963500369955900510549800731/1
25502857203316651855468750000000000)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 11 Z.

A GENERATOR OF THE TORSION GROUP IS THE POINT D=(U,V), HERE IS

U = (879844839 , -1172964)
V = (27970312500 , -548437500)

MU-P-VALUES

P	M3-P	TYPE OF DECOMPOSITION
11	8/3	R

I = -105/2 J = -15210594

A = (-56683327063941049053304663371 , 12102716399669803307666456)
B = (3988947991402871992459853898256167763272038 , -1757136217729292215540244704236602876168)

J-INVAR[AMT

J = (2004033121847666432903815997034552264026739571765228240056905539871999/481186591551247472441147581491065051590045778433878400
00000000 , -6583429624294843462000017764917195423841055907519452504557296969138899976301025715120916401087543580553910EE159033807
30701130880000000000)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MID 11 Z.

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V). HERE IS

U = (146448928740971 , -14071647756)
V = (2362651918744320000 , -3125200950720000)

X = -85 D = 643009

A = (-5139415591160687006340611 , 5325903430992725740984)
B = (3365446836503168482975514733472185582 , -7150596963165819927520049938124800)

J-INVARIANT

J = (22012468169331791699301454212825501279088642915820654563994175372678950665994124324238722521020765378690000000000 , -20439259
882933542140032488358281219555243070814829662594244370128863252557649110102573186871704118017957970000000000)

THE ISOMORPHISM TYPE OF THE COXSON GROUP IS 2 MOD 11 2.

A GENERATOR OF THE TORSION GROUP IS THE POINT R=(U,V), WHERE IS

U = (339939107159 , 427233196)
V = (2793757404960000 , -16056077010000)

X = -155/2 O = -7631894

N = (-7152034129896014164918138491 , 2210828655584095768025176)
O = (170009440248814144257965904603034035852278 , -110936293213400346448586996074809408008)

J-INVARIANT?

J = (15939956853827984831237798249810519161572827101543870289166265274319762894014348667267252145405042924281165277210918496000000
0000 , -33450942200341227018984892301817557334705860963518959473410215500882976356069090076314028501814633637927854562914935423205
7600000000000)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 11 Z.

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V). HERE IS

U = (52420069308931 , -6937562316)
V = (827189928241920000 , -1300613091720000)

X= -70 D= +90616

A= (-130188839613025891011 , 390621589706423468)
B= (401087776427409060859119583218 , -2650248702694934017130884684)

J-INVARIANT

J= (89084754470124779411092968512947465628339728115/5979364096196289138513036818309492187500 , -121944512532445114033387528233629
2578866518756161/123902784073186074950611722875372678125000000)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 11 Z.

A GENERATOR OF THE TORSION GROUP IS THE POINT G=(U,V), WHERE IS

U= (7103351841 , -9021858)
V= (1726991289000 , -23985990000)

X = -125/2 D = -4155994

A = (-585776788804673484921474811 , 271982079522919441745496)
B = (3705964292072560994107443728698748631318 , -3924071134895926020413225128174659848)

J-INVARIANT

J = (30387045821112042004459159676979361602076306212651453347455312839/57089729519308004964578103154996643066462500000000000000
 , 816616245083555124990575021106308971607021745699894147634059262459/2466467032945987650111163809807276765916015625000000000000
 000)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2^2.MD.11.7.

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V), WHERE IS

U = (15130197111091 , -2937248076)
V = (2316195000000000 , -4488750000000)

C-7

.....

X= -55 D= -178459

A= (-32622428947490064568451 , 76880781161050076344)
B= (1465935609759785122877740716501962 , -8301734254348600509000133047688)

J-INVARIANT
.....

J= (62802937278020854259741007634171271325052578536607491/15165679596651763800828422197978739810000000000 , -10647965274504475754
96462855911004433766513981008709313/108267786640496941774114106071370223503590000000000)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS $2 \times \text{mod } 11 \mathbb{Z}$.

A GENERATOR OF THE TORSION GROUP IS THE POINT $0-(U,V)$. HERE IS

U= (113520000039 , -110183916)
V= (212706790560000 , -1865849040000)

.....

.....

X= -95/2 D= -1658894

A= (-24775828921120674400112331 , 19102993105862584699416)
B= (28850419234239314329772924998850837158 , -57039622334639196041964691052071688)

J-INvariant
.....

J= (10569760789505921712845038934592966987017640364419440002067559/5658415787610490238444584263967183210162746560000000000 , -301
97633838491225825350775021113383550740783713963817664707889/22147039392707458793272110637167355084576990335840000000000)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 11 Z.

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V). HERE IS

U= (3142941197451 , -982065036)
V= (45926204670720000 , -115975264320000)

.....

.....

X= -40 D= -4599

A= (-812640313085096 , 15648048534296)
B= (5002157867968786615488 , -231500077864487569088)

J-INVARIANT

J= (5359182469045019370852205084771/74647672206908900000000000 , -1624482076189237307748078767800231/905236833785597690000000000)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS $Z \times C_2 \times C_2$.

A GENERATOR OF THE TORSION GROUP IS THE POINT $Q=(U,V)$, WHERE IS

U= (18060846 , -120846)
V= (997920000 , -47520000)

.....

.....

X* -65/2 D* -616594

A* (-335645016267468408051051 , 505152222848211798936)

B* (37956095166010216202925134963817790 , -177012282405338005695917522143520)

J-INVARIANT

J* (174717198422520876194142042523294209194209254217966018479/83039529917750613185122716300145069562464000000000 , -104432511717
24538143666518417300921762190765567211566305119/1576090278104306638253629155528593416499566720000000000)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 11 Z

A GENERATOR OF THE TORSION GROUP IS THE POINT Q*(U,V). HERE IS

U* (366848870011 , -216653196)

V* (4971862321920000 , -18015995920000)

.....

#####

X= -25 D= -18109

A= (-4470553612685795091 , 61561965199773306)
B= (1636771010338162322073781022 , -55136511436157157838690568)

J-INVARIANT

J= (69617791572524920886333781830674940905565061719439119019200365163086914062500000000 , -3791981605680717241556755914258038??
79331993857281531575778405291464760253906250000000000)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 33 Z.

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V). HERE IS

U= (1322503119 , -6787436)
V= (2114102000000 , -39154000000)

#####

.....

X= -35/2 D= -105094

A= (-393411003357471850971 , 1550175247776996056)
B= (1223096995141244050085423241238 , -18555584839910146991945935368)

J-INVARIANT

J= (-9546938237212171803389840089790570278656032681/6044046600072782865822416091183040000000000 , -4889524182237191517351713577440055103145483981869/3438516053243815285225094484492190080000000000)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 11 Z.

A GENERATOR OF THE TORSION GROUP IS THE POINT G=(U,V). WHERE IS

U= (11791062771 , -18932356)
V= (139155045120000 , -892019520000)

MU-P-VALUES

P	MU-P	TYPE OF DECOMPOSITION
11	1/3	R

.....

.....

X= -10 D= -346

A= (-70396022691 , 4348544508)
B= (3575140304025178 , -819013205494764)

J-INVARIANT

.....

J= (-2568704480551845526916583/2016161040953781230000 , -74856312299603327306313391/205062545733809375090000)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MID 11 Z.

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V). HERE IS

U= (134781 , -4378)
V= (22680000 , -1890000)

.....

X= -5/2 D= -394

A= (11927945167909 , -219946717224)
B= (19653005181558995478 , 516493934005932792)

J-INVARIANT

J= (5265738539296108765959813428919/2224250816475288096000000000 , -329964130171313416303430078974979/57830521228305490496000000000)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 N60 11 Z.

A GENERATOR OF THE TORSION GROUP IS THE POINT G=(U,V). HERE IS

U= (1111731 , -103116)
V= (4043520000 , -112320000)

.....

X= 19/2 D= 8198

A= (-35198127199663403 , -269044174110888)
B= (3401808243608862918559350 , 28764408448935046619384)

J-INVARIANT

J= (-11435758058790773582005774677195414379/1897789659942708450198909160226816 , -1021014022085592754267607977252621357291/17452073712833146908029168657445799936)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 11 2.

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V). HERE IS

U= (-79419837 , -1493580)
V= (-1189027952640 , -19817132544)

.....

.....

X= 17 D= 77

A= (-6998717777483043 , 485159414220956)
B= (6736973758557469490990 , -14194851479907309544952)

J-INVARIANT

.....

J= (-10313095610676373218692116147034096031/610731878786649838178320265411584 , 515972794517301205616826203274797460721/269943490425699228474817557311920128)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS $\mathbb{Z} \bmod 11 \mathbb{Z}$.

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V). HERE IS

U= (-4040553 , -7037940)
V= (-112572944640 , -26267020416)

.....

.....
 X= 55/2 D= 284606
 A= (-10418594456398016417931 , 22581391834266293016)
 B= (704275127887323646378848390248358 , -1114529258981506183542559130888)

J-INvariant

J= (-3681416380355873033321561149624704492434846283510531/185314380992527251473271855681678089600000000 , 78522975318251494567
 205071637928698084832278369057961/210776376940900495825699408652340659111040000000000)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 11 Z.

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V). HERE IS

U= (25690642251 , -110317836)
 V= (-1212845125120000 , -5945417280000)

.....
 I= 28

X= 28 D= 1177
 A= (-189626739451 , 6425506480)
 B= (54606139642186414 , -1359450787355856)

J-INvariant

J= (-56450655007911086511611599/259670252043867958272 , 69143154364841885873833341/10906150585842454247424)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 11 Z.

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V). HERE IS

U= (113223 , -7236)
 V= (-10113012 , -777924)

.....

.....

X= 05/2 D= 1112906

A= (-2331176108110439620462651 , 2512751448939184200536)
B= (2151307652557050294307847507836722998 , -2018845176797941705919976983902728)

J-INVARIANT

J= (-13043481209235256569607946696997821510038596745176235225011/75799102782224486345261337673268639579424000000000 , 356388933277507442355866164939564787926317907112348233863731721828625619226217099467960023147902826082523520000000000)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 11 Z.

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V). HERE IS

U= (613769243811 , -628161996)
V= (-18003011605120000 , -55564850810000)

.....

X= 43 D= 72127

A= (-658034048113830412291 , 2773505242169411000)
B= (10160886942545694815058502949614 , -37548261744816111321946894344)

J-INVARIANT

J= (-153483212703496064251529500100823547545606613779/84172031585821813514434682811228304192512 , 1917987980627289210222056537251228116472154832413/202312993938846362527413926148059732261685248)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 11 Z.

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V). HERE IS

U= (10384463703 , -41138404)
V= (-37785573266688 , -460799673984)

.....

D-1

.....

X= -199/2 D= -16594550

A= (-133441020067040002594675130411 , 25527606433594362552516760)
B= (14676723200457968451500110719376223836740486 , -5505940535841074307000675605727927901704)

J-INVARIANT

J= (25726007520107057572121876504590234170506156431905563294105004901274059/25625139973737326503406325941457755804416723324780643
6880772600 , -542452060170197972169255483151755155175707285258257412300956046544455641/4222305563752646762619267150025877352916656
3336707562219036840165576)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 11 2.

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V). HERE IS

U= (224001955669307 , -10036547084)
V= (3643949968508060416 , -4407625113927160)

MU-P-VALUES

P	MU-P	TYPE OF DECOMPOSITION
3	1	0

.....

.....

X= -92 D= -50785

A= (-774058792840025051 , 2756010871590520)
B= (201010287927576225426816154 , -1433776451258128959508176)

J-INVARIANT

J= (1932945804256540055045179143549229873461931/312766499999986479531209990364216832 , -199179584764710905918930992282423516723487
9/17264710799440536590827914791447691264)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 11 Z.

A GENERATOR OF THE TORSION GROUP IS THE POINT G=(U,V). HERE IS

U= (541310763 , -840456)
V= (17045674992 , -362673936)

MU-P-VALUES

P	MU-P	TYPE OF DECOMPOSITION
5	1	0

.....

.....

X = -169/2 D = -10110350

A = (-196466897554827638271836684811 , 5147918039187278528998680)
B = (794119385940081592864459528929250701145126 , -437381218234175195792174247040597550344)

J-INVARIANT

.....

J = (199208598183400741970198162465693740235593087395139129764829675499999/3006476939741562944617741726875007561967255202252042381
390528 , -3724955725115609223617025787604816460373490142656527886327439564837431/5990549787939574894494020531040464646049033871158
61875042069856256)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 11 Z.

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V). HERE IS

U = (86557033893387 , -9801837324)
V = (1581210505586446336 , -1995969033217408)

MU-P-VALUES

.....

P	MU-P	TYPE OF DECOMPOSITION
3	1	0

.....

D-8

.....

x= -77 D= -480233
A= (-1619064105794578308653091 , 2026781442981014850360)
B= (577906751848096974723987371647789134 , -1530387267111836532208503755900424)

J-INvariant

J= (1118789023483676478000808202439652207654238215089396481311/45602360251980113656689216805133205055828074693392 , -150019:05709
439454553644033142344111834987246113450422261187/6257282259615199287846154194699547324102395439606949888)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 11 Z.

A GENERATOR OF THE TORSION GROUP IS THE POINT G=(U,V). HERE IS

U= (788926019943 , -422525484)
V= (1554815066289408 , -9840601685376)

MU-P-VALUES

P	MU-P	TYPE OF DECOMPOSITION
3	1	0

.....

 X= -159/2 D= -5680118
 A= (-2009439889974622245555914811 , 763936712979896879904600)
 B= (24444390380C49109440922449414553986013366 , -20366021805007696195609965485440280584)

J-INVARIANT

J= (646863705884186320922391922003647761958977079994375232120953547759/4648142782852862083123753007359435594941880321553617638404
 0 , -15923426200454366127735850138727595181056590006661837437566740539821/37990200592815012377787054079750159004578977878598563683
 84875136)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 11 Z.

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V). HERE IS

U= (27915504279267 , -4488764364)
 V= (453916624767481856 , -758595497845248)

MU-P-VALUES

P	MU-P	TYPE OF DECOMPOSITION
3	1	0

.....
X = -62 D = -65422
A = (-31811895064667919771 , 119956712505044780)
B = (46761890167457959155735522226 , -403392846719130175673913612)

J-INVARIANT

.....

J = (474282852734976210587220840155118789989276981/60409576110655223945810416562886817852 , -141420616162280971007151020671194198
95674931429/5438311679785625880497636922652522888507968)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS $Z \times \text{MOD } 11 \times Z$.

A GENERATOR OF THE TORSION GROUP IS THE POINT $Q = (U, V)$. HERE IS

U = (3528922017 , -5555682)
V = (842605784064 , -15165715376)

MU-P-VALUES

.....

P	MU-P	TYPE OF DECOMPOSITION
3	1	0

.....

$x = -109/2$ $D = -2779898$
 $A = (-120267302089775569878964411, 72063333159551107954520)$
 $B = (326927621085807721884231305876520025206, -472590212367456357522563466942910424)$

J-INVARIANT

$J = (5690941860707740612754029919881056899256225092450499450450333197; 44344380132513865129657187312587983961132406915737223168, -177152382036475452326501161535436809007715032601551233379929368117736329551931979728799407243928975023782528634; 585587228246016)$

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS $Z \times C_2 \times C_2$.

A GENERATOR OF THE TORSION GROUP IS THE POINT $G=(U,V)$. HERE IS

$U = (6894900442947, -1699824204)$
 $V = (103196273167742976, -228310338866688)$

MU-P-VALUES

P	MU-P	TYPE OF DECOMPOSITION
3	1	D

.....

.....
X= -32 D= -47

A= (-65697960384216 , 11368874701820)
B= (10316179666825643156 , -55752375588830709568)

J-INVARIANT

J= (89793428307522563582179015691/469571952668691086180352 , -2411171092930182585715937493983/33809180592140758204985344)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS $Z \times \text{MOD } 11 \times Z$.

A GENERATOR OF THE TORSION GROUP IS THE POINT $Q=(U,V)$, WHERE IS

U= (5130822 , -548158)
V= (270729216 , -111476736)

MU-P-VALUES

P	MU-P	TYPE OF DECOMPOSITION
3	1	D

.....

.....

X= -49/2 D= -273450
A= (-14676572351514544698411 , 35058362382653566360)
B= (305389759295339279686856061367686 , -2579866144915936145253632240904)

J= INVARIANT

J= (40445876864340550150078433606289065790155087475781839/1320840212271090212642454240389475188137142078208 , -471901641484166318
0900551554347551981276551171160910391/14756426831492619853641498775651194457868160235339776)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 11 Z.

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V). HERE IS

U= (75648967707 , -70726284)
V= (963005487446016 , -4542478714368)

MU-P-VALUES

P	MU-P	TYPE OF DECOMPOSITION
3	1	D

.....

.....

X= -17 D= -6053
A= (-70771238474499891 , 1143729958162440)
B= (2940912658536244091770174 , -18617790567780836984584)

J-INVARIANT

J= (-743490280010833714156778500531164781019/360549042250531811071485055208850432 , -128480211470823192531754049966440105994007/2
57432016166879713105040329419119208448)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 11 Z.

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V). HERE IS

U= (157118223 , -1057644)
V= (230341563648 , -6061620096)

MU-P-VALUES

P	MU-P	TYPE OF DECOMPOSITION
3	1	D

.....

 X= -19/2 D= -19238
 A= (-808789704857270811 , 5692479170768280)
 B= (117045305100130601321242326 , -5516966383069609205377544)

J-INVARIANT

J= (-1694323029810152050014370982445542233523201/1628727139543602129174308407933815424128 , -965685154561913332917056189373018451
 54835581/3342148090425715729065681017240185146310656)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 11 Z.

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V). HERE IS

U= (416960787 , -1960524)
 V= (4475068839936 , -48642052608)

MJ-P-VALUES

P	MJ-P	TYPE OF DECOMPOSITION
3	1	0

```

*****
X= -2          D= -2
A= ( 160029 , 82620 )
B= ( -17174214 , 11701908 )

```

J-INVARIANT

```

-----
J= ( 699337828027/227692944 , -1560085545819/2732315328 )

```

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS $Z \text{ MOD } 11 \times Z$.

A GENERATOR OF THE TORSION GROUP IS THE POINT $G=(U,V)$. HERE IS

```

U= ( 237 , -162 )
V= ( 5184 , -1296 )

```

MU-P-VALUES

```

-----

```

P	MU-P	TYPE OF DECOMPOSITION
3	1	D

```

-----

```

 X= 10 O= 154
 A= (-3718345851 , -180083412)
 B= (115039352270898 , 6490158461876)

J-INVARIANT

J= (-220778241945541621/49591933593750 , -6269772914211899681/2380412812500000)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 11 Z.

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V). HERE IS

U= (-21639 , -5618)
 V= (-6480000 , -810000)

MU-P-VALUES

P	MU-P	TYPE OF DECOMPOSITION
5	1	D
11	1/5	R

.....

X= 35/2 D= 66406
A= (-40612533132669155451 , 104856605739573336)
B= (155643698665743820216546524598 , -244874919663114737619416328)

J-INVARIANT

J= (-28493293078175646936734836420758453289516528121/188825170963389368567266381359264000000000 , 416289323307601467555857017525
554635106854719781/5474391462491718131842669215380179200000000000)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 11 Z.

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V). HERE IS

U= (-169389789 , -18072396)
V= (-69453054720000 , -560105280000)

MU-P-VALUES

P	MU-P	TYPE OF DECOMPOSITION
3	1	D

.....

#####

X= 5772 O= 310650

A= (-16235382475799067505707 , 33565603305606754456)
B= (1365636286789752899165394557092806 , -2043716504102159110614203001096)

J-INVARIANT

J= (-119281271065510258001141581909883956061262288420107337/502247922214319481289620718080260107668801505232 , 236204160185418530
6655432092540761033158262676694747431/561111378697837724496764266259266274475850394107904)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS $Z \text{ MOD } 11 Z$.

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V). HERE IS

U= (3414447735 , -127243788)
V= (-1515340927475712 , -7150381735576)

#####

X= 29 O= 21041

A= (-4919855661533058707 , 39724540773262200)
B= (7189771273134608655450978494 , -45226901499117247739838600)

J-INVARIANT

J= (-187626697275462469227794250031774246873172239/72433341021465939652841796875000000000 , 167674046815077575486069795232741872
1901538883/105028344481125674966206056687300000000000)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS $Z \text{ MOD } 11 Z$.

A GENERATOR OF THE TORSION GROUP IS THE POINT C=(U,V). HERE IS

U= (611314863 , -8525100)
V= (-5294890285600 , -61109078400)

#####

.....

X= 87/2 D= 1196158

A= { -3111020005517287477725707 , 3214551648262599064856 }
B= { 5294643741382668235261684506716940326 , -2892128761505516649812197940913416 }

J-INVARIANT
.....

J= { -27545255511648867684914473605415354662892204989787226640097/14283183696322091493743963719806305296015962040205312 , 69349638
2157887101265585525475713745084750654748607824289481/392673341163286939400993050584914945198070828109324437504 }

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS $Z \times Z$ MOD 11 Z .

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V), WHERE IS

U= (718860227595 , -689339148)
V= (-20771885051246592 , -62565918829056)

.....

X= 44 D= 4841

A= { -52166770270227 , 844543228680 }
B= { 225481022764618725054 , -3223744449071522040 }

J-INVARIANT
.....

J= { -2785561670384754981179107194909/1364284954535690000000000 , 48482646542807803965651133241141/165078479498818450000000000 }

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS $Z \times Z$ MOD 11 Z .

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V), WHERE IS

U= (2942923 , -44010)
V= (-166028940 , -7906140)

.....

X= -183/2

D= -12792542

A= (-49900568660537260386102406307 , 11221454182793980188687256)

B= (3285421362307629020062288122197128365901446 , -1482384735323041419445182498259151830536)

J-INVARIANT

J= (2040264176758914023020499408522234965926464981474779569345726220773143/33954097840966219212608526358230134354757749323276636245819392 , -33927784220892396507892780304364136010012135435005417307892060373245369/474746935134116904055322328719967051064739044894520106680050034304)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 11 Z.

A GENERATOR OF THE TORSION GROUP IS THE POINT O=(U,V), WHERE IS

U= (137471932732635 , -13473290508)

V= (2214986524757891072 , -2861225300478464)

MU-P-VALUES

P	MU-P	TYPE OF DECOMPOSITION
3	1	D

X = -84 D = -38807
A = (-266723492931090387 , 1130987696955316)
B = (39655291336390219084622334 , -846000700269939655185304)

J-INVARIANT

J = (12300620103590957714150111553697673381667/310006930321067921706432260236200 , -159435193470294183619868722411551628449291/1620176819927241178112088746520815616)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS $Z \times \text{MC}$ II Z.

A GENERATOR OF THE TORSION GROUP IS THE POINT G = (U,V), WHERE IS

U = (319003195 , -584232)
V = (9934867404 , -231043428)

MU-P-VALUES

P	MU-P	TYPE OF DECOMPOSITION
3	1	D

X= -153/2 D= -7537442

A= (-6146260747733901669788476107 , 1947528414603261436037636)
B= (154896462407645854076404821535794748542366 , -90617247066331898461230045110123246956)

J-INVARJANI

J= (10927566847978543242908356474261738295341129361506352787403742309183/46081519711380931248242221581878117422056602309417805837
1072 , -232777065575073802267340668760388185932850809024817503402181599802919/454050430020178296179180237690561468536776734751555
2447418466304)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 11 Z.

A GENERATOR OF THE TORSION GROUP IS THE POINT G=(U,V). HERE IS

U= (88621897933673 , -6586669068)
V= (765922747751626352 , -1219622209795584)

MJ-P-VALUES

P	MJ-P	TYPE OF DECOMPOSITION
3	1	0

.....

X = -69 D = -347537

A = (-451069557950612105150467 , 655368740321962050744)
B = (82010528446064132612519247909826454 , -27789918091545564952213410946056)

J-INvariant

J = (505511910824066154345171917158257431103092147255066569797/36438559030400077633231940577594755469210021975000 , -6055105900142087462695763543040376521326936067141558329403/36701205101284830207717856937870949440821781512947712)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 11 Z.

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V). HERE IS

U = (418371281655 , -272570528)
V = (812047252444416 , -5718642622848)

MU-P-VALUES

P	MU-P	TYPE OF DECOMPOSITION
3	1	0

.....

X = 123/2 D = -3963542

A = (-40392736736700060154912507 , 232542057852722174740056)
B = (2783288598314668624618007686643199834486 , -3056858272022155760869362901176007176)

J-INVARIANT

J = (157143699106751747986435528791048691712457774943664238228815043/208945372335405227217360130799481443636541052808410112 -4
29758204137881631680414357992602561948161329978051586487666112971346694713778731830461329643932817756E21171839222291048538624)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 11 Z.

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V). HERE IS

U = (13796617101315 , -2953985228)
V = (210566451715144832 , -414500189199104)

MU-P-VALUES

P	MU-P	TYPE OF DECOMPOSITION
3	1	D
11	1/3	R

X= -54 D= -42278

A= (-6446084839974280827 , 31451269319434028)
B= (4041464100012850873671060786 , -47729435805356777985231308)

J-INVARIANT

J= (23611736818948959965761974425577768677229473/6295596505472876349210750770109191462 , -296914890734462285175026708619722954099
8482361/157692354041128389805824571253855901271872)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 11 Z.

A GENERATOR OF THE TORSION GROUP IS THE POINT G=(U,V). HERE IS

U= (1396766785 , -3200034)
V= (372841999488 , -6657892848)

MJ-P-VALUES

P	MJ-P	TYPE OF DECOMPOSITION
3	1	D

X= -93/2 D= -1746842

A= (-19419017917770831352227707 , 15562374814160159162456)
B= (19816496594529757661834450757246817206 , -41158843557401200746492244170079496)

J-INvariant

J= (5705493545400624655552619112246034464095261525423375433907465/343371020132878936995971824671121755559865111013384852 , -211154848343524418750475278195551287729190337017256496044377819/129011359684325274209629413965433867500375251955624954907904)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 11 Z.

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V). HERE IS

U= (2784053547555 , -902150988)
V= (45524588980877912 , -104441816961024)

MU-P-VALUES

P	MU-P	TYPE OF DECOMPOSITION
3	1	0

.....

 X= -59 D= -65587
 A= (-639416043334429348867 , 2807498224923733944)
 B= (3449127847429921723951426110414 , -42776562029295281504538684296)

J-INvariant

J= (32504884034738276602312873236485943918867990915617/52521763105226781278750784840107928008547328 , -74301939891145562475138949
 7184159181159078298155955/176158000162930624404930132353721990540667738112)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 11 Z.

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V). HERE IS

U= (14024611975 , -27968748)
 V= (28191258890496 , -343795840128)

MU-P-VALUES

P	MU-P	TYPE OF DECOMPOSITION
3	1	0

x= -65/2 D= -563342

A= (-256615478867669821413707 , 375432606090920312856)
B= (22128190578740411005915655141010726 , -110523811385356119277761766071816)

J-INvariant

J= (70188868375561662011508719410682179012939292076611537705/404790598898781394928891478804146051235567935782912 , -4424930064687157613517147646303190339404864150810713450769/7242513397286196718067726355185387251506781507027861504)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MID 11 Z.

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V). HERE IS

U= (307804264395 , -191359348)
V= (4143707254536192 , -15461594235344)

MU-P-VALUES

P	MU-P	TYPE OF DECOMPOSITION
3	1	D

.....
X* -24 D* -1007
A* (-2727476395992 , 107579741976)
B* (767505903642865856 , -108016174575481556)

J-INVARIANT
.....

J* (17371732380703615494132977/670004931719056002048 , -136513269600913168379390491/28140207132200352086016)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 11 Z.

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V). HERE IS

U* (1029390 , -15918)
V* (50948352 , -5919104)

MU-P-VALUES
.....

P	MU-P	TYPE OF DECOMPOSITION
5	1	0

.....

X= -33/2 D= -2

A= (-211898214852237942507 , 187707689701344083016)
B= (480474748838797288105858415046 , -1673617610405835185971523980696)

J-INVARIANT

J= (-44267400369190136120716663001146347742483384787/18312285135591982703434527990925213610115072 , -2659193052813237375782905265
8650529203173309452979709/1090166938692061914300864320355739816637370466304)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 11 Z.

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V). HERE IS

U= (8535923833 , -3181733948)
V= (99479835113472 , -141825981141504)

MU-P-VALUES

P	MU-P	TYPE OF DECOMPOSITION
3	1	D

X= -9 D= -1037
A= (-117144389152467 , 3373330689144)
B= (205836772450280722974 , -26022657598703158536)

J-INVARIANT

J= (-814705485214198312739358510463163/500583504384074256899789677568 , -11829691847992632193302092671383503/117136540961073376114550784550912)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MID 11 Z.

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V), WHERE IS

U= (4844895 , -101848)
V= (6484997376 , -294772608)

MU-P-VALUES

P	MU-P	TYPE OF DECOMPOSITION
3	1	0

X= 21/2 D= 11722

A= (-107725613260727611 , -503159650005160)
B= (17754814926869016742843446 , 102600771139577924601336)

J-INvariant

J= (-1082301241408687667092466505804917823121/522051149002048896294715377807884288 , -9651593443261422044613992477918152810701/37
CO79855671197394753829192566209642496)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 11 Z.

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V). HERE IS

U= (-125354973 , -2269644)
V= (-2376638724096 , -34950569472)

MU-P-VALUES

P	MU-P	TYPE OF DECOMPOSITION
3	1	D

.....

X= 10 D= 1138
A= (-3399950502171 , 72358457900)
B= (3825686389503525106 , -50742136984548652)

J-INVARIANT

.....

J= (-15406446471117664197966392479/675354881979841403669112 , 229650831482727800371958664251/34037886051784006744923248)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 11 Z.

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V). HERE IS

U= (-10623 , -39522)
V= (-317447424 , -19840464)

MU-P-VALUES

.....

P	MU-P	TYPE OF DECOMPOSITION
3	1	0

.....

.....

X= 59/2 D= 355310
A= (-24921856788051907311005 , 49111188969227809752)
B= (2586494243170342751089140424709910 , -5820266183418004939859074706696)

J-INVARIANT

J= (-356822405697587573659513422555920553852183761745812169/1194047245980517937959158226689407462876657647616 , 6805745797227559740930026601545652109482261021207377469/14371552652621513901276428416438522623183451446706176)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS $2 \times \mathbb{Z} \times \mathbb{Z}$.

A GENERATOR OF THE TORSION GROUP IS THE POINT $Q=(U,V)$. HERE IS

U= (44664709683 , -146044620)
V= (-1879466670766080 , -8543030321664)

.....
X= 30
.....

X= 30 D= 5854
A= (-1830612101075811 , 28170692807868)
B= (51369851206068779125818 , -596358979621495301484)

J-INVARIANT

J= (-241834400022202491928573965713159773/788440503319685526042656250000 , 2467246824909044107499746425811952789/614983436589352994313271875000000)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS $2 \times \mathbb{Z} \times \mathbb{Z}$.

A GENERATOR OF THE TORSION GROUP IS THE POINT $Q=(U,V)$. HERE IS

U= (12405741 , -305058)
V= (-7960680000 , -284310000)

.....

.....

X= 89/2 D= 1283458
A= (-4124184126064864516588207 , 4087294046265552647832)
B= (499576598807375055198246E+17988713030 , -4392734916343474543301914735042056)

J-INVARIANT
.....

J= (-51950640875968351597063082820346091133434062886802451365769/24065545575845614955849548708457383786006224589526896 , 13233539
91198643919580469390554029342731004725971943325364039/69394830502508415229015786557077118853275492263424357056)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 11 Z.

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V). HERE IS

U= (838348972923 , -754879500)
V= (-23886784288143360 , -70255247906304)

.....
X= 45
.....

X= 45 D= 83041
A= (-1156515140801906119251 , 4491291177539303544)
B= (23585499238168908983687249634302 , -80937196323007912046836657288)

J-INVARIANT
.....

J= (-65954711576793443771274032817000831135800258752399/2891539145737680009886646452311291000000000 , 84518497531665893464260383
3704058399892452708408787/10669779447772039236481725409028663790000000000)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 11 Z.

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V). HERE IS

U= (14124426639 , -49334316)
V= (-49969623760000 , -581042160000)

.....

.....

X= -197/2 D= -15911454

A= (-118512747353043568421208283347 , 23118768385448940853519320)
B= (12253629467191056538086139978496708336952016 , -4700064514747852747831615961002714623240)

J-INVARIANT

J= (17649753456283568757150337750390425904518092064839332469990202831661879/20210478752043009803860852934711879943945511150904736
000000000 -258449229344708736438548159834865553815240397614475147412429941251846851/3243800537605027803715682186304157096144957
871317151053440000000000)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 11 Z.

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V). HERE IS

U= (211191038309427 , -18091009740)
V= (3431693375116718080 , -4268275964075520)

.....

.....

X= -91 D= -786679

A= (-11424808419710695674085107 , 30385630773739870924440)
B= (11365147495052362524695795852820739294 , -20761663781664430962063370679043720)

J-INVARIANT

J= (16187531079823351917043664573172026884743039297819084660720241/2771487754109945183285439858498838924569731000000000 , -13574704901754576358432418970302438055485074592493472356449077/47919023270170522189706751567300250581064899000000000)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS $Z \text{ MOD } 11 Z$.

A GENERATOR OF THE TORSION GROUP IS THE POINT $Q=(U,V)$. HERE IS

U= (2080598658303 , -823835820)
V= (4187702802366720 , -22514531195520)

.....

.....

X= -167/2 D= -9760894

A= (-17092794001893344179886296747 , 4502014055376627555010200)
B= (642221504133178648275181822205630829026196 , -35489796545740760189601174931558532400)

J-INVARIANT

.....

J= (116279516104330496278011152404253007697966052508046635587815618159/31018994719829230185068129708351062551146875000000000000
00 , -22103066127854052796348185132145283385323272105563044832094660605121/3633932782748044022634464362306473012229065887500000000
000000000)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 11 Z.

A GENERATOR OF THE TORSION GROUP IS THE POINT C=(U,V), WHERE IS

U= (80776695216507 , -9346341900)
V= (1287045084078021900 , -1881644859763200)

MU-P-VALUES

.....

P	MU-P	TYPE OF DECOMPOSITION
11	1/5	R

.....

.....

X = -76 D = -28879

A = (-82852966502076627 , 425327788072440)
B = (6662814782235672237539454 , -72670655925526974093320)

J-INVARIANT

J = (7290788683767232971027465143902444912131/3181596233960111501209600000000 , -9785705120610297303086990913552769262879/12090065689048423704596480000000000)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 11 Z.

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V). HERE IS

U = (178567863 , -391620)
V = (5489120520 , -140746690)

.....

X = -137/2 D = -5442754

A = (-1697756633559455551195991947 , 665570440001963810454600)
B = (18890390334322081523968161495864907678006 , -56260814770925939965535023239538410760)

J-INVARIANT

J = (437304330364898628434495861199330081239469713658717882715790338399/328941449004240997533261916370575524470352765801600000000
O = (-10616094856406847137639476901995289445899104676780266624497980254231/26137687557876989663992991874805935549322122770595336000
0000000)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS $Z \times Z \times Z$.

A GENERATOR OF THE TORSION GROUP IS THE POINT $Q=(U,V)$. HERE IS

U = (25675007210187 , -4236219660)
V = (598256738408145920 , -706128915617280)

X = -61 D = -241849

A = (-107932831148451748913507 , 209786547889753127480)
B = (9185557256578193764581770045409294 , -41107587058986820260920508191240)

J-INVARIANT

J = (1396140057965771135708342286107280178764426819570083684217193965013738774602603658049282451039989000000000 , -192700049953524
716923591464445962846939166678700562727987/1538142558916762598647008350809836747112770000000000)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS $Z \text{ MOD } 11 Z$.

A GENERATOR OF THE TORSION GROUP IS THE POINT $D=(U,V)$. HERE IS

U = (203683403543 , -166602540)
V = (391901545002240 , -3110329722240)

x= -107/2 0= -2633014

A= (-97156807795211038248313147 , 60243119607910047548760)
B= (235582931397617957078428199465461612086 , -355233139586516206863869055221709320)

J-INVARIANT

J= (33253957104686773504058602672973479718460288475629086683787735979519569274914315801924596753149680353414165440055000000 , -10558756571580318350270312591988694864575720127226527704540628621745870919675932872376964103401900272689950452229568000:CC0000)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS $Z \text{ MOD } 11 \times Z$.

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V). HERE IS

U= (6203303958467 , -1578691020)
V= (92522537279677440 , -208385106485760)

.....

X = -46 D = -26446
A = (-1022806359312733467 , 6687079243094700)
B = (258376550483514619828119026 , -4059893352814116983469900)

J-INvariant

J = (904462689617151146501252556598323027690841/577786018513166954808807373046875000 , -334841673213460266054251858741854628846146
29/2657815685160567992120513916015625000000)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 11 Z.

A GENERATOR OF THE TORSION GROUP IS THE POINT O=(U,V). HERE IS

U = (639113217 , -1687650)
V = (145069574400 , -3022282800)

.....

.....

X= -77/2 D= -1007676

A= (-2262840161333205106444347 , 2540945251316961028440)
B= (721626224554794194986394674572490486 , -2303770190063090932932629295475080)

J-INVARIANT

J= (2102632066100418274482473120744016031508627734411582327829/379817278497096902705564148957949508970464000000000 , -1116344226593571341451425464457157593527697391937549778740811/109379779919189966040572403616910299593314222720000000000)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS $Z \text{ MOD } 11 Z$.

A GENERATOR OF THE TORSION GROUP IS THE POINT $Q=(U,V)$. HERE IS

U= (953374409347 , -425083980)
V= (15383218292111360 , -41306229296640)

.....

X= -31 D= -33619

A= (-48318933963417543907 , 314999976416240120)
B= (61070183790114985874085520494 , -1325515450335577071446343560)

J= INVARIANT

J= (40952305234325048603710401341773408935384226401/261096071065410370332239719371590000000000 , -1350056541050101111753358555282
91132555004504297/56658021021194180562096019103635030000000000)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z x Z.

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V). HERE IS

U= (439655383 , -11223660)
V= (7572800610540 , -111703100160)

.....

X= -47/2 D= -242734
A= (-9310203930515025809547 , 23709095926476669720)
B= (151856502507708541616540522930086 , -1391257874206508447290005356040)

J-INVARIANT

J= (10196403153732808113511648881552796591372597846028789/46921950903792263231348418114117853760000000000 , -135245844526948024317
3795452448287121288004034231308801/53369026937973320199533569076259976468666240000000000)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 11 Z.

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V). HERE IS

U= (60021790827 , -60006340)
V= (754864287815680 , -3710119057920)

.....

.....

X= -16 D= -319
A= (-35762639832 , 2497043160)
B= (1051232466430656 , -289582880137920)

J-INVARIANT
.....

J= (-221258257117281276909/83158560000000000 , -284332622586514117269/166277120000000000)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 11 2.

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V). HERE IS

U= (1:0022 , -3270)
V= (4976440 , -552960)

.....

.....

X= -17/2 D= -14194

A= (-277385172534072747 , 2027977509288600)
B= (24009742546539543844538886 , -800288516727257986600200)

J-INvariant

J= (-105633339376247346138111088142337829598961/16787847117024065060512500000000000000 , -62406180454210887465174983144658220610
50591/2853934009894091060253125000000000000000)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 11 2.

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V). HERE IS

U= (226610907 , -1346700)
V= (2424648038400 , -28864857600)

.....

X= 1/2 D= 238
A= (-2622293149803 , 131063299992)
B= (1565214061830694470 , -101457597008551176)

J-INVARIANT

J= (-38861807164652430395024707631/3471408183888543744 , 100228587900243514439055646671/124970694619887574784)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 11 Z.

A GENERATOR OF THE TORSION GROUP IS THE POINT O=(U,V). HERE IS

U= (588605 , -37260)
V= (2488320 , -124416)

MU-P-VALUES

P	MU-P	TYPE OF DECOMPOSITION
3	1	0

X= 1/2

X= 1/2 D= 2
A= (-246708174411 , 174174545160)
B= (66624661361791096 , -87108648389280344)

J-INVARIANT

J= (-1954407190767918815623094439/171064888915566592 , -42798293067353807956785254651/4789760189635864576)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 11 Z.

A GENERATOR OF THE TORSION GROUP IS THE POINT O=(U,V). HERE IS

U= (210507 , -139524)
V= (-1161216 , 1064448)

X= 11 D= 665

A= (-44378290068867 , -615809194056)
B= (147714813433767644014 , 2734462019321045304)

J-INVARIANT

J= (-606909367690196319211501731155/188417623422308747672501248 , -7676056418918697940442027620203/319179457465729818557217114112)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 AND 11 2.

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V). HERE IS

U= (-2302825 , -171948)
V= (-6375511296 , -354195072)

.....

X= 37/2 D= 79658
A= (-79458854855665891707 , 215743443454808856)
B= (437590599443913609082902267126 , -754010983987964547179164216)

J-INVARIANT

J= (-17202236272036067146028775106945424910241391249763333763326672717422211528444069366485845:2 , 26126717667214136939229551491
42406462982999417731728041251219407930317613164008194572094866325504)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 11 2.

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V). HERE IS

U= (126288195 , -22585548)
V= (-99177361569792 , -751343648256)

.....

.....

X= 61/2 D= 594602

A= (-37719597208937143164411 , 7002109000889357400)
B= (4792531759409916192744156298146966 , -6832184273045642927965173874104)

J-INVARIANT

J= (-914497153852326261019065925938764424187033125857607841/2745953331775628938162750934625335366603761614040 , 10039712099401027
477873210026745302313050491848857175579/35510668186486569428320495138302836940919845203214336)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 11 Z.

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V). HERE IS

U= (57622444467 , -146853964)
V= (-2312936885910656 , -10144460017152)

.....

X= 31 D= 25963

A= (-11272446194761684467 , 82631353608714744)
B= (2469323776723204615510041854 , -138320759677814546395006856)

J-INVARIANT

J= (-1384024033131635473019289427910839131036219403/3832853386442707696327069996475202290600 , 1439104978489592597351084017009280
9526186227097/6416196548905092685631515174099484634611712)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 11 Z.

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V). HERE IS

U= (1017875055 , -11128428)
V= (-4998184310916 , -86175391552)

.....

.....

X= 91/2 D= 1374902

A= (-5432611774560248844960411 , 516776099645988967320)
B= (7504056683178979735137339541454822806 , -6550911460109805142051513968758024)

J-INVARIANT

.....

J= (-9609324654801464126991344733754733957897723678141202150201/39895611254907022124751472093529591802526838653075968 , 24776903
37508162632017668662381216995272183636890201439434589/1205326207235250952432991474883673869233916143344331145216)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 11 Z.

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V). HERE IS

U= (973756380147 , -824985804)
V= (-27581461854795776 , -74642561651712)

.....

X= 46 D= 22222

A= (-370747486578273827 , 2765119956452028)
B= (155577042981603597963862386 , -89448198069942125577708)

J-INVARIANT

.....

J= (-54288972280934046310323091555585479412041/22144481598930209916349382267489296 , 730018675724614474049162100149804537559589/4
2785158449133165558425646540789519872)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 11 Z.

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V). HERE IS

U= (255843885 , -1683234)
V= (-111703572280 , -2558717952)

.....

X = -101/2 D = -12303102

A = (-438691644989745260426444811403 , 10076054847852970119453912)
B = (2700270810491210863720649767446919527102550 , -124810597146401751510133423505192574216)

J-INVAR[ANT

J = (1479440348844599613986154124046254544663462800033138819722539651023831260616412821756577213227839876566100794432743048110633
22155776 -23023037935142557464221361644778911736135920545169361616250439337510917354617074648788299954924469731979896899111010
97312672916850774436)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 11 Z.

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V), WHERE IS

U = (128957961380563 , -12894226380)
V = (2075112951837501440 , -2304205448429056)

MU-P-VALUES

P	MU-P	TYPE OF DECOMPOSITION
3	1	0

X = 03 D = -599327

A = (-3889984064840601009833043 , 4219355866918332707048)
B = (2201073107221440112418565713732065790 , -4910750125730038763995819643161736)

J-INVARIANT

J = (1099559415721453114261233316754098721473461112587281526905969/3032623138017269275913715529404629295618566163958784 , -105363152496950825061455031561722676192107007202676446477997/43797143359245102881501679681496224287323332539892758523)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 11 Z.

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V). HERE IS

U = (1218855804017 , -570290220)
V = (2425716009591040 , -14269388291712)

MU-P-VALUES

P	MU-P	TYPE OF DECOMPOSITION
3	1	0

x = -151/2

D = -7250162

A = (-5271716948809318048407373803 , 1712783654469910216109592)
B = (106714714340834796540811017930174034788070 , -73828092191100382397372180260765754376)

J-INVARIANT

J = (7445360331091591388688073060532005284718460337854014541951406620631/316300895569124958261583749422216272721618300642166484729
836 , -161192631801552462207064828000053848160622846521091256760420975364521/32296992612885764491601456939311961967093335120471103
527516450816)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS $Z \times \text{MID } 11 \ Z$.

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V). HERE IS

U = (45055608197403 , -6249262460)
V = (70848445883921020 , -1142716869367616)

MU-P-VALUES

P	MU-P	TYPE OF DECOMPOSITION
3	1	0

.....

X = -68 D = -2007

A = (-22600500269426925 , 143019377310592)
B = (920551171003074398124070 , -12009592430337103510164)

J-INVARIANT

J = (205409245202659069163305691674575510169/22512333700070539686753320327104 , -456651093951000040716798485007557292979/602757411
2221505147206510774093024)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 11 Z.

A GENERATOR OF THE TORSION GROUP IS THE POINT R=(U,V). HERE IS

U = (93007967 , -251100)
V = (2041304420 , -01102412)

MU-P-VALUES

P	MU-P	TYPE OF DECOMPOSITION
3	1	0

.....

.....

X= -121/2 D= -5777122

A= (-401911389093285489377200203 , 198324838347640565434072)
B= (2080776820605762059483687030195499778790 , -2571870679995043859129300758857372936)

J-INVARIANT
.....

J= (1073402284816050105620899482430548135705342446371856656091827421/155729575699829965896782748357420003666741197632074776576
-328701429736786135585228275509574845685317153505144051755180754951/10695451251314041988443481817680262885850318756891842825329049
6)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS $Z \text{ MOD } 11 \times Z$.

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V). HERE IS

U= (1255441536043 , -2579440140)
V= (191132667525888000 , -362265335051776)

MU-P-VALUES
.....

P	MU-P	TYPE OF DECOMPOSITION
3	1	0

.....

#####

X= -55 D= -160097

A= (-2120006547755127539043 , 53723039715929940088)
B= (761159060061541890194632585559150 , -4690163594939335590941367035656)

J-INVARIANT

J= (235958226606006548751813330243509497977460659802630469/69537011001717807643219895216675347044105005824 , -3702355246784527097
070172096066972301890649641059313067/420143043412378942572055466899152446840970630780608)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 11 Z.

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V). WHERE IS

U= (9102204967 , -95038380)
V= (17097979646720 , -1354561633152)

MU-P-VALUES

P	MU-P	TYPE OF DECOMPOSITION
3	1	0

#####

.....

X= -91/2 D= -1619382

A= (-15144051920439655060091003 , 12623485381350700491352)
B= (13514156467089703620065344707075608310 , -79497863943255649882557131042563896)

J-INVARIANT

J= (276270048167297741813607139987499124416277848725575960012621/187478691820139931400160620617068304143634710043590656 , -115271893975086892861689329263815403143244601254778805669040381/74335803522736188282100920541291408282112224522439161675776)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 11 Z.

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V). HERE IS

U= (2459894460483 , -827222220)
V= (35663017413703680 , -93850045825336)

MU-P-VALUES

P	MU-P	TYPE OF DECOMPOSITION
3	1	D

.....

X= -61/2 D= -513242

A= (-165072193365936082646203 , 276479904802920185452)
B= (12695783940538262765964549168293430 , -68024451085359514378091497109256)

J-INvariant

J= (2732339600019634429363742951642666428230351057710364231/193082350151124372320918169935131513133484035178496 , -1829640077553356787003453088334286396894410422894157818811/3250754447144529932396156829027870787915337216265158656)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 11 Z.

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V). HERE IS

U= (256863114723 , -168358100)
V= (3433804013352960 , -13206930512896)

MU-P-VALUES

P	MU-P	TYPE OF DECOMPOSITION
3	1	D

 X= -23 D= -14267
 A= (-1798462165304322243 , 18932485518559928)
 B= (404535220779886852281604110 , -15445737807052343994103176)

J-INVARIANT

 J= (44064292271746517111597766195114582840489/21448930618376528567498089148398175184 , -330467164243332304083951277299719159575549
 7/5041596668023400080932626722310531094528)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 11 Z.

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V), WHERE IS

U= (852390887 , -3445740)
 V= (1305626169600 , -26112523392)

MU-P-VALUES

P	MU-P	TYPE OF DECOMPOSITION
3	1	D
11	1/3	R

X= -31/2 D= -74702
 A= (-110556486340070265803 , 500723443597260312)
 B= (179941160275276816439916530150 , -3230442977705653426685419016)

J-INVARIANT

J= (-144885624773364399582294514164237076449842630149/51582584965832945325261796872530861116450176 , -243991901622870433713547905
 10186429481730679168241/249455390566768123592966045675559244361087451156)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MO 11 Z.

A GENERATOR OF THE TORSION GROUP IS THE POINT G=(U,V). HERE IS

U= (6058922763 , -11856780)
 V= (69706478499840 , -497903417856)

MJ-P-VALUES

P	MJ-P	TYPE OF DECOMPOSITION
3	1	D

.....

X= -8 D= -47
A= (-56260568 , 4265192)
B= (36549178560 , -20605669056)

J-INVARIANT

J= (-17749332872431/39847209984 , -71645666308559/239083259904)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 11 Z.

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V). HERE IS

U= (2478 , -270)
V= (103690 , -20736)

MU-P-VALUES

P	MU-P	TYPE OF DECOMPOSITION
3	1	0

.....

X= 1 D= 13
A= (-327267 , -192456)
B= (-992441106 , 385419384)

J-INVARIANT

J= (-14012332469496223/1390722040 , -23317935850638647/8344332288)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 11 2.

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V). HERE IS

U= (1355 , -100)
V= (-20736 , 10368)

.....

X= 3/2 D= 166
A= (5698248453 , -1333293480)
B= (5289380563340086 , -373692579173640)

J-INVARIANT

J= (-43825981953846533072721721/311344119360000000000 , -204136135340287970502460549/186606471600000000000)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 11 2.

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V). HERE IS

U= (54627 , 7860)
V= (-22394880 , 5598720)

.....

 X= 23/2 D= 16126

A= (-509450117970158347 , -729377105569960)
 B= (82303606621319733756360486 , 296023102387049057833720)

J-INvariant

J= (-27448625848125202871749702772049145891681/468566954849182953972367904000000000 , 25503653078977296595120893295488579658889/
 1198622597691872476481867707520000000000)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS $Z \text{ MOD } 11 Z$.

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V). HERE IS

U= (-181960055 , -5505180)
 V= (-4410115061760 , -58027829760)

MU-P-VALUES

P	MU-P	TYPE OF DECOMPOSITION
3	1	D

```

.....
X= 19          D= 5451
A= ( -26810470662527907 , 294926973662520 )
B= ( 2743740005349487713868494 , -19424823638871420554760 )

```

J-INVARIANT

```

-----
J= ( -577289877791548635312591731666550086299/1246966246903560261471909000000000 , 2916347737009161372186879834142603069853/71077
0740735029349038980150000000000 )

```

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 11 Z.

A GENERATOR OF THE TORSION GROUP IS THE POINT G=(U,V). HERE IS

```

U= ( 5459783 , -1570860 )
V= ( -228698581760 , -6755840640 )

```

MU-P-VALUES

```

-----

```

P	MU-P	TYPE OF DECOMPOSITION
3	1	D

```

-----

```

.....

X= 63/2 D= 436046
A= (-54336080332555033219947 , 100769540394069289800)
B= (8700029438002410774410923090562886 , -11967500659592676105217975377160)

J-INVARIANT

J= (-217605900019314943801569466804792951427882094090910291/55654047211020052010365604505240623454000000000 , 302405560079475;45
11710;23999561070726017373050269229169/0403130005915426770720032271067005132101760000000000)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 11 Z.

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V). HERE IS

U= (73435443307 , -109010060)
V= (-2026640740534720 , -11977291307520)

.....

X= 32 D= 1793
A= (-15954051051760 , 445405331672)
B= (41547969306059926280 , -89377007;765625616)

J-INVARIANT

J= (-25520022962106042097263261/60557792330126721024 , 3370220900879147665054435;/3380036370407096377544)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 11 Z.

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V). HERE IS

U= (1259710 , -49330)
V= (-103794540 , -12306304)

.....

#####

X = -195/2 D = -15437894

A = (-105130060354901815413545091931 , 20916980471003272303437016)
B = (10211937066251201636360071852052560350046358 , -4005792482604849025331817130417920698000)

J-INVARIANT

J = (13090462332904065572409357657090673722670898851870617177616648160240159/15697571903491731425747788190374095516920270716117056
0000000000 , -195945093641991852759346109039018438427695110073318426457463335685826709/248533547066080351952904782064150364149155
6651901013190400000000000)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 11 Z.

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V). HERE IS

U = (198946127459251 , -17367829836)
V = (2229441989221120500 , -4057590130720000)

MU-P-VALUES

P	MU-P	TYPE OF DECOMPOSITION
3	1	D

#####

.....

X= -165/2 D= -9419594

A= (-14846460722979003589485426651 , 4072719020775060552664536)
B= (518067425230715605111938096166723058030998 , -294064233182703358832654440406001470728)

J-INVARIANT
.....

J= (8996788590251453736000074110363293100529749868927456561919006613189/23405168392042606759397958997735685326356599667424000000
000 , -1912234115097522224275614639994771590374506797891266928045289002906019/3215957939703767323766862342237606605644830685429119
5520000000000)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 11 Z.

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V), HERE IS

U= (75321344525811 , -8906915996)
V= (1198291009893120000 , -1772619837120000)

MU-P-VALUES
.....

P	MU-P	TYPE OF DECOMPOSITION
3	1	0

.....

.....

X = -75 D = -444359
A = (-11910797099303858887616691 , 1567627054081569043704)
B = (561656882429521761030733679397601822 , -1015817253304257265401505850395768)

J-INVARIANTE
.....

J = (5712829827096573057413601005679473178204693919630071582961/2671599556818285155643220534435440242187900000000 , -62345362758
899113292194648191661015060476675301474704852153/31658456748296653706721633306400616699218750000000000)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS $Z \text{ MOD } 11 Z$.

A GENERATOR OF THE TORSION GROUP IS THE POINT $Q=(U,V)$. HERE IS

U = (677434756319 , -380544236)
V = (1330552100000000 , -863865000000)

PW-P-VALUES
.....

P	PW-P	TYPE OF DECOMPOSITION
3	1	D

.....

X = -135/2 D = -5212094

A = (-14309064025338405812071222571 , 574877599518933280749656)
B = (14544004792433841774434522944943017898438 , -2941403971559742341510838370194562568)

J-INVARIANT

J = (259111232857085026246059851370282319119081909792008403701192471097210590515869541151227220778139288015027568253344000000000
-705528416667592249086193321829788085232750604091817027017033387304971788797859899056446754258733670740257245471417554604800000
00000)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 11 Z.

A GENERATOR OF THE TORSION GROUP IS THE POINT '0'-(U,V). HERE IS

U = (23586191696571 , -3994489356)
V = (365072927281920000 , -656605984320000)

MU-P-VALUES

P	MU-P	TYPE OF DECOMPOSITION
3	1	D

H- D

I* -60 D* -110

A* (-5312964329946171 , 468629540175456)
B* (99694545572502411187862 , -20381138146669716025632)

J-INvariant

J* (7495027525644703181014772044859394891/113639084360481746944000000000 , -14472167642302217284430048169557387381/27275300248435619266560000000000)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 11 Z.

A GENERATOR OF THE TORSION GROUP IS THE POINT G=(U,V). HERE IS

U* (43664179 , -675344)
V* (1355040000 , -481140000)

MU-P-VALUES

P	MU-P	TYPE OF DECOMPOSITION
3	1	0

H-8

X= -45 D= -99209
A= (-3258481986902651924131 , 31084200702088190264)
B= (42442946968031162791710207521742 , -380036595780485256090414128648)

J-INVARIANT

J= (16982532753183571929486392555975705572702596634701/12252019047111478597471159161361410000000000 , -32617936794604594202864486
1925021358973644893307643/5403140599776162061484781190140381810000000000)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS $2 \times C_{11} \times C_2$.

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V). HERE IS

U= (36093394599 , -49472536)
V= (65275126560000 , -694416240000)

MU-P-VALUES

P	MU-P	TYPE OF DECOMPOSITION
3	1	D
11	1/3	R

.....

X= -75/2 D= -933494

A= (-1680029878436265129830011 , 3975634050416411300696)
B= (455746353243244260365590132803873710 , -1544290516585390350331560726346248)

J-INVARIANT

J= (11191676148901673702453442428395449435171318147263454613039/2267534233424067857726256627781158437500000000000000 , -559072414022089097131552203538007829253107180689690681542509/5446160241227920965738379003175084509375000000000000000)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 11 Z.

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V). HERE IS

U= (821585870691 , -382793676)
V= (11472127200000000 , -36304200000000)

MU-P-VALUES

P	MU-P	TYPE OF DECOMPOSITION
5	1	0

.....

X = -30 D = -7646

A = (-8184343115666331 , 112727177219628)
B = (159061121417655122952658 , -6177551816162183651404)

J-INVARIANT

J = (5650290822155232552443775796255113931/28649349657789138789192421875000 , -252374054309334535533743136260419965181/58485473261089243129952340625000000)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS $Z \text{ MOD } 11 \times Z$.

A GENERATOR OF THE TORSION GROUP IS THE POINT G=(U,V), WHERE IS

U = (57164001 , -307938)
V = (11897280000 , -571790000)

MU-P-VALUES

P	MU-P	TYPE OF DECOMPOSITION
5	1	0

.....

X = -45/2 D = -214394

A = (-5801632610066164377531 , 15786051181025270616)
B = (73551595307147967343679430877558 , -7317103703032512153879759098)

J-INVARIANT

.....

J = (2851306876306310902665382271390585529100706066294759/19122221686094463763786655551288490560000000000 , -47550651365101876691
3685546018524356498850184114480939/1852879948853411843065246939559219994240000000000)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 11 Z.

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V). HERE IS

U = (47163834051 , -50562636)
V = (588864971520000 , -3004413120000)

MU-P-VALUES

.....

P	MU-P	TYPE OF DECOMPOSITION
3	1	D

.....

.....

X= -15 D= -4259
A= (-19176472037950371 361948872986624)
B= (411888261063612517816462 , -30857068106645418011528)

J-INVARIANT

J= (-67787602480543453325832969823091225119/23590348921396368177626790000000000 , -4877811863509855831609538511749477446073/1344649888519532986124727030000000000)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z M2D 11 Z.

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V). HERE IS

U= (79109079 , -653676)
V= (115024160000 , -3324240000)

MU-P-VALUES

P	MU-P	TYPE OF DECOMPOSITION
3	1	D

.....

.....

X = -15/2 D = -206
F = (-84564051895018251 , 8301330422742952)
H = (4237583247937828271556198 , -1106382082843496752509196)

J-INvariants

J = (-3786826398245878545636193940888372027321/13539724830393264793738088640000000000 , -20676036630060816015971241304942059484541
83/1868482026594270541533836232320000000000)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 7 x 11 x 2.

A GENERATOR OF THE TORSION GROUP IS THE POINT G=(U,V). HERE IS

U = (113821611 , -6519572)
V = (1221320320000 , -112674240000)

MU-P-VALUES

P	MU-P	TYPE OF DECOMPOSITION
3	1	0

.....

x= 2 D= 2

A= (-3483 , 1836)
B= (163890 , -100108)

J-INVARIANT

J= (-998961/184 , -4750151/1472)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 11 Z.

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V). HERE IS

U= (33 , 30)
V= (0 , 492)

x= 3/2

D= 106

A= (-158209812731 , 12801801816)
B= (20112055481347358 , -2460176495444400)

J-INVARIANT

J= (-5783303750150661883933041/37540047436000000000 , 35397631445078836006803989/22524028473600000000)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 11 Z.

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V). HERE IS

U= (315451 , 19764)
V= (10360000 , 23920000)

MU-P-VALUES

P	MU-P	TYPE OF DECOMPOSITION
3	1	D

.....
X= 12 D= 73
A= (-7091523 , -173148)
B= (9488353230 , 407345976)

J-INVARIANT

J= (-84872566101231/25355327744 , 21242261586581/152011966464)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 11 Z.

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V). HERE IS

U= (-813 , -240)
V= (-85740 , -8748)

MU-P-VALUES
.....

P	MU-P	TYPE OF DECOMPOSITION
3	1	0

.....

H-37

K= 65/2 D= 481906
A= (-83099807962964779159371 , 341615363100721682456)
B= (15493392070136132194529148918704038 , -20562150354153693347140001308168)

J-INVARIANT

J= (-6054571854105304252556187030404519320414755658535447001/1325832865937100554964483479971900418784000000000 , 129378628221339016467793035985302732794208514749874640751/19648843073187830224573645173185564206578810000000000)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS $Z \text{ MOD } 11 Z$.

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V). HERE IS

U= (92571804971 , -215055756)
V= (-3432035992320000 , -14065721280000)

X= 33

K= 33 D= 31597
A= (-24530444548739697891 , 163230785182196280)
B= (78335572953494783154003115374 , -408470514564318195256725304)

J-INVARIANT

J= (-805362942971609950841306594904484369975322429/1634963274034473194144504252501988934912 , 95486959036243278061042680426704403632175373143/34422516771521798629518392111263201635637248)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS $Z \text{ MOD } 11 Z$.

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V). HERE IS

U= (1617923623 , -14286444)
V= (-7569180270848 , -118457746304)

.....

X= 95/2 D= 1570606

A= (-9258221188265378098144491 , 8129520807032917921176)
B= (16485265239147236144427954844818574278 , -13187205479804779782323418105840008)

J-INVARIANT

J= (-311296090334049411060967479413715969815443761461119123409681/10455725595873369923970251640757112034654496000000000 , 821658399915136509613048372212960552158556473125104337355921/34566628819957360968645651904630123865477637760000000000)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 11 Z.

A GENERATOR OF THE TORSION GROUP IS THE POINT G=(U,V). HERE IS

U= (3298988871931 , -979730316)
V= (-35657326897920000 , -97959689280000)

.....

X= 48 D= 6337

A= (-2454131005228016 , 33809627764440)
B= (70927426571315469850816 , -893913563320584295104)

J-INVARIANT

J= (-30327716392424923300673261864039/9674259245595188177928192 , 55347425001583768741390849991611/14047024424604213234351734784)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 11 Z.

A GENERATOR OF THE TORSION GROUP IS THE POINT G=(U,V). HERE IS

U= (21254982 , -249414)
V= (-2264361856 , -98537472)

.....

.....

X= -97 D= -950293

A= (-24163062692272585276130291 , 19421510314175701180920)
B= (35537574205943138135526602151968182654 , -56394784642131599734655205888074504)

J-INVARIANT

J= (10487729635034975998284275689437479813438838206008387355206501/129140282714086484385234881362342903957608018448041472 , -7919
9974576075239965231430752601765430680347634291512492335847/2530374699499810575044292265413746860145372888969724602368)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS $Z \times MD 11 Z$.

A GENERATOR OF THE TORSION GROUP IS THE POINT $Q=(U,V)$. HERE IS

U= (3017558884783 , -1063405164)
V= (6118551988329728 , -30901676708736)

.....

.....

X= -179/2 D= -11983078

A= (-38513502887779172782037107611 , 9036960217108638405422040)
B= (2214557831946087233790623797413505853781846 , -1049236367498835024337979222732075117064)

J-INVARIANT

J= (971831064992603198640654660204090287393493310255274642798289176962589/18132399697334892845578136952523322480145630053630215973
93408 , -18391625205605733830678885531508632608701428258735637046666716447766101/2670561586332576060168162704131977962862824569034
722270337780023296)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS $2 \times \mathbb{Z} \times \mathbb{Z}$.

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V), WHERE IS

U= (120887557135827 , -12334036044)
V= (1942667777221687296 , -2453917728444928)

.....

.....
X = -02 D = -144562
A = (-824200701586557275171 , 1829954675187661500)
B = (6764525940496903184729701672506 , -31135700382465505283163967852)

J-INVARIANT

J = (3593866819719949244993379495366105868544300997096771055655217297230997683948666237695519223824 , -350058378940122356800892064
65508421255490959387209977444480392380066648867205994301228801566406848)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS $Z \times MD \times Z$.

A GENERATOR OF THE TORSION GROUP IS THE POINT $Q = (U, V)$. HERE IS

U = (17751685677 , -16978722)
V = (4409272252224 , -52491336336)

.....

X= -149/2 D= -6970058

A= (-4512645177595773564407176411 , 1503824877613352552799960)
B= (8416086080335991450214215197223930844886 , -59989701871235002087145442489;75588104)

J-INVARIANT

J= (5047347078055473457110906400262205586202795629134179985358705871639/244437928911761936792054584572259371487044950646532269047
808 , -111063525567888890548587336364849478885536947278760638539989810422291/22872545884131387949506131587595453908789513001897517
479341490176)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 11 Z.

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V). HERE IS

U= (41709747697107 , -5924993484)
V= (654681205557295816 , -1069740531629568)

.....

X= -67 D= -318703
A= (-320446795987491139791891 , 522212527959411529080)
B= (48612054616494635553824008734534974 , -175948076930788966661509187483784)

J-INVARIANT

J= (1766942491221319138931253461718264536274467405546626361/1493434784619935684320055c4236366626302496161792 , -21989879563445443
692537615366436952254616831800087762117/1420853854087406810062100367304792c02622920483289088)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z M50 11 Z.

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V). HERE IS

U= (353063315825 , -242348844)
V= (682355002376448 , -4944601466496)

HU-P-VALUES

P	HU-P	TYPE OF DECOMPOSITION
11	1/5	R

.....

.....

X* -119/2 D* -3596638

A* (-331411445525489770067336811 , 168706490119814244521880)
B* (1548215635446461263442575829727595867526 , -1852855683852848325121088314958932744)

J-INVARIANT

J* (7276027612794611330192771644752421129920666693767878271350120599/1153465674379539780338678103152254284842556159271124641728
-20620221790310887326525071776794216580978736597252162786664683508176972930694759193880105576869175886698750220494025799057054105
6)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 11 Z.

A GENERATOR OF THE TORSION GROUP IS THE POINT G=(U,V), HERE IS

U* (11408578244187 , -2413331724)
V* (173216952849217536 , -352066977335808)

.....

.....

X= -52 D= -9463
A= (-1019122363945251 , 10654462670040)
B= (7909196656567950070894 , -203609898075461199336)

J-INvariant

J= (1177383540999230485440734489876372721/58479067700170580289930406912 , -240896536312462813834777472439695739/7033190522887045612767534057984)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 11 Z.

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V). HERE IS

U= (20102883 , -86016)
V= (582987132 , -21592116)

.....

.....

X= -89/2 D= -1536418

A= (-11748456213806232771812811 , 1019567940909325466780)
B= (9141010788597832242766041080307281766 , -20990954855046088357538626868638984)

J-INVARIANT

J= (1596242880170350856341010694939166687299916263752665462951359/1225311850234118:41247492353708673222709074900564853248 . -621:
1741579509766803922279532641466297224752148540311993258471/42312468812284567653558403958267903726589774459399112359956)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS $Z \times C_2 \times Z$.

A GENERATOR OF THE TORSION GROUP IS THE POINT $Q=(U,V)$. HERE IS

U= (2167729913067 , -757066764)
V= (31297411919149056 , -84132827739648)

.....

.....
X= -59/2 D= -466198
A= (-113892222852956277948411 , 201632738754324357720)
B= (7161776152072468620515281958159606 , -4121209075152772519755789154824)

J-INVARIANT
.....

J= (10279518689735633808467355259931905951576413248537179919/89996769677840386698347129863067461121659746746368 , -735055995023867956162785252689708521961125964552188266461/1423028922146012194474264817594822695255683915553570816)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 11 Z.

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V). HERE IS

U= (213115119747 , -147494604)
V= (2828245567666176 , -11223196697098)

.....

.....

X₀ = -22 D₀ = -3142
A₀ (-271034563554171 , 6102435575340)
B₀ (757182211735510514866 , -6115757677723430732)

J-INvariant
.....

J₀ (3490584218837875007633708560887/289166718985402065473997289 , -56396529164284738851642909803496489/29110991843203596735398255078208)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 11 Z.

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V). HERE IS

U₀ (10167297 , -90402)
V₀ (1975372544 , -82225856)

.....


```

*****
X= -29/2      D= -61978
A= ( -55352431095274207611 , 271667395273751640 )
B= ( 43874585066088804146034213046 , -1246256666197055107317888264 )

```

J-INVARIANT

```

-----
J= ( -34909096124434575302950582227495405623409177721/121714489900053137662507188564992027647705088 , -4347282545283213367504523906
020051294084428733051/52240034631028066847480855320945782663950237696 )

```

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 11 Z.

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V). WHERE IS

```

U= ( 4205560227 , -9191244 )
V= ( 47753078224896 , -361765744128 )

```

```

*****

```

.....

x= -7 D= -523

A= (-10782282876291 , 302777897400)
B= (6398146657804302414 , -1009074958667825544)

J-INVARIANT

J= (-39223494605453696441112463869/291457246143659400498988032 , -25810028990102540892357621644177/493728574967359163245285726208)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 11 Z.

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V). HERE IS

U= (1215303 , -45804)
V= (1642975488 , -91276416)

.....

.....

X= 3 D= 7
A= (-64960291 , 25360120)
B= (292495671054 , -110355264104)

J-INVARIANT

J= (-17513944258575899/11911856672 , 39757251705810547/71471020032)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 11 Z.

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V). HERE IS

U= (8585 , 1256)
V= (559072 , 279936)

.....

X= 7/2 D= 158
A= (-600844549707 , 35283090156)
B= (217403863217657606 , -15384597725893496)

J-INVARIANT

J= (-452255569949778572822299263/124023139904749568 , 1074821828268689902945730681/3472647917332987904)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 7 MOD 11 Z.

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V). HERE IS

U= (749355 , 15812)
V= (398297088 , 33191424)

.....

.....
X= 25/2 D= 21506
A= (-777102038380074411 , -587313507308904)
B= (347486114272685039355208518 , 654783763612056274280952)

J-INVARIANT
.....

J= (-596630157900771259258128186521955364151561/10569104432528095857187500000000000000 , 26021915740157456800325924016662783563
2391/179674775149577629572187500000000000000)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 11 2.

A GENERATOR OF THE TORSION GROUP IS THE POINT G=(U,V). HERE IS

U= (-245135109 , -4644876)
V= (-771120000000 , -9180000000)

.....

.....

x= 20 D= 401
A= (-2184745811 , 132401736)
B= (103927662259182 , -3031582999032)

J-INvariant

J= (-1681187967954577327549/4258816000000000 , 1678873647087918724289/85176320000000000)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z x ZD 11 Z.

A GENERATOR OF THE TORSION GROUP IS THE POINT G=(U,V). HERE IS

U= (3759 , -1884)
V= (-1215000 , -135000)

.....

.....

X= 97/2 D= 1675050

A= (-11983772071018182901276107 , 10119755446213700357654)
B= (241287101648000332288293924353833658566 , -18717267750966479200143181565582856)

J-INVARIANT

J= (-4507901963224315084459053473162688436397539636229467164577/1366418491266324470462868678366618035820507422687252 , 1203369225
97587005244567406714688240526792348498279646589511/47185165340408716614023781201356054689740962320235495424)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 11 Z.

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V). HERE IS

U= (1492481265675 , -1064797068)
V= (-40518528266294732 , -108920761468416)

.....

X= 49 D= 108061

A= (-3321908079548145862307 , 11006415496106152760)
B= (111025437181336684808765709310494 , -339291005526407144126423423880)

J-INVARIANT

J= (-66787128737657277341259171408424570144054681711519/192898415995712896031481173475740710000000000 , 896529133740976350347985
1588587127534241275542519143/84891801454109387149483197502801633110000000000)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 11 Z.

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V). HERE IS

U= (24963627225 , -69334380)
V= (-84274954642840 , -894541851520)

.....

J-1

.....
X= -193/2 O= -14973842
A= (-93146079809905238715468023707 , 18904632134382636346434456)
B= (8494603600560903468542924614832557100116806 , -3408570356415998734924019010643094265096)

J-INVARIANT

J= (9679853052590353074747233029981644078700107659860011368477585304575663/122410990785841973415306300797085730543036606331215602
813059232 , -147511072970690062402996710230978387809193442476100935414440267825586319/18994758262224877578799909307285386948789676
277627387520635955707904)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 11 2.

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V). HERE IS

U= (187593296685735 , -16446555788)
V= (3037982277921011712 , -3855307459290624)

MU-P-VALUES

P	MU-P	TYPE OF DECOMPOSITION
3	1	D

.....

.....

X= -89 D= -736637

A= (-8805357142079600167998867 , 8353986398982054861944)
B= (7644151563286003847529376875147806814 , -14667599779794050092614276147013896)

J-INVARIANT
.....

J= (6984877054447631651254015525420413714702530493743509517677/134156968928838320647572034499998190158397301408768 , -60593699105
131155343096138090740321163500081308888490131543/2220834463647989559999907459112970039882108927520745472)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 11 Z.

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V). HERE IS

U= (1828325891775 , -753805548)
V= (3670186191549696 , -20165838195328)

MU-P-VALUES
.....

P	MU-P	TYPE OF DECOMPOSITION
3	1	D
11	1/3	R

.....

J-3

.....

X = -163/2 D = -9086342

A = (-12873822350199484681885855707 , 3614943005759376404144854)
B = (416834620226321755589468398073355603874326 , -243113399407075015166562432784180177416)

J-INVARIANT
.....

J = (69516983979883086796924007371435798096298673320683214901325593647903/21018825593816159637325252159652711609339846926841413979
01312 , -13614163426687622924189831829645257066585576041711237370845014748019269/23434309037747052702846670137840001227485182135674
0292758815077504)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 11 Z.

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V). HERE IS

U = (70176213380595 , -8483171148)
V = (1114696700497262592 , -1668707635474944)

MU-P-VALUES
.....

P	MU-P	TYPE OF DECOMPOSITION
3	1	0

.....

J- 4

.....

x = -74 0 = -106778

A = (-248668588327481009827 , 671483538367186428)
B = (1086326880779670836527643192026 , -6280853969928200609431170028)

J-INVARIANT

J = (17988071937404476218842292206773169214414146249/90236979308047946196877096464898506352976 , -199522055786878653144276477037
44957743853739445711/52084784434403274544837460910834190213377472)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS $\mathbb{Z} \text{ MOD } 11 \mathbb{Z}$.

A GENERATOR OF THE TORSION GROUP IS THE POINT $Q=(U,V)$. HERE IS

U = (9793949565 , -11264994)
V = (2399765704120 , -31575864528)

MU-P-VALUES

P	MU-P	TYPE OF DECOMPOSITION
3	1	D

.....

.....

X = -133/2 D = -4988042

A = (-1203164251440518203397988507 , 497152380809162799671256)
B = (11154787096492125118975492335246006042646 , -10263566372603619840769052284638697756)

J-INVARIANT

J = (184605074720322185131107157724412154374570969780264632163797039543/1623142705018795262627901774934257941000882004428686848819
2 -4635551839479740526153914024780130947892346863560882810084176857219/121755180588469870240244167941367056430358160916204657903
6258304)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 11 Z.

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V). HERE IS

U = (21640741978035 , -3763240108)
V = (334225791270991872 , -609901078961664)

MU-P-VALUES

P	MU-P	TYPE OF DECOMPOSITION
3	1	D

.....

J-6

X= -59 D= -219287
A= (-73384674187510859300467 , 151801941184732017144)
B= (5085111624168797852503481977281374 , -24546066166569095438148271808136)

J-INVARIANT

J= (5303194629710116438040830369918383400278009535017761137/879395397812359293578280765153457518961445385168 , -75829614409363442
640894323973901595130987372216237279253/6537425387356930308460939268002123195959384978470912)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 11 Z.

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V). HERE IS

U= (169023233695 , -145834668)
V= (321871230648576 , -2638288775808)

MJ-P-VALUES

P	MJ-P	TYPE OF DECOMPOSITION
3	1	D

.....

X= -105/2 D= -2554942

A= (-62667865462459329296776107 , 41681427289118284501656)
B= (120113485205186405124976336880845501766 , -197567743793927978868187900862914056)

J-INVAR[AMT

.....

J= (110136943611623785768413506880513966181892481136230166935534583/37929656545071185950098619156975803784090630269145167872 -5
643249752198236923619419667633193632181435198389657582504226169/1734599053119195475869452731286817458465103270438318687122304)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 11 Z.

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V). HERE IS

U= (4986588230975 , -1355974648)
V= (75917857726871552 , -372705275062784)

MU-P-VALUES

.....

P	MU-P	TYPE OF DECOMPOSITION
3	1	D

.....

J-8

X= -44 D= -5807
A= (-150274903608387 , 2129062421736)
B= (416002770523316286414 , -15683908829033069784)

J-[MYAR]ANI

J= (84495126762357020938504660747177/69069711358086576061022208 , -2290215170082264427011011608118591/100289220891941708440604246
016)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 11 Z.

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V). HERE IS

U= (7754655 , -44172)
V= (218209464 , -9487348)

MU-P-VALUES

P	MU-P	TYPE OF DECOMPOSITION
3	1	D

.....

X = -75/2 D = -865042
A = (-1257952585549219437050507 , 1526083652452922764056)
B = (284536773858502209643593548345611686 , -1024577010224586285336599246554576)

J-INVARIANT

J = (5108399322303670399592490728908446731829449072545319917023/12116247842761559866281114067924503268026949110628552 , -255446240387939759264963677107724822487508389285189215432119/286575493976991683557280909934550351295373400364581781504)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 11 Z.

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V). HERE IS

U = (705283568715 , -343746828)
V = (9794018070855652 , -31798759970504)

MU-P-VALUES

P	MU-P	TYPE OF DECOMPOSITION
5	1	0

.....

.....

X= -29 D= -27737
A= (-22995668286500151267 , 167507817933580344)
B= (20383068543809149281852238734 , -486874279122850760173562376)

J-INVARIANT

J= (526528111574030299040695825555664417481327887/5154832821990881814582208799096355068928 , -2145770333963879749801786455451554175040594788037108529850234196025724213824056174659621210112)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 11 Z.

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V). HERE IS

U= (3026182215 , -8614188)
V= (3001166976256 , -80663983488)

MU-P-VALUES

P	MU-P	TYPE OF DECOMPOSITION
3	1	0

.....

.....

x = -43/2 D = -188342

A = (-3546154581405160123707 , 10527644618203226456)
B = (34635878333647476670918974212406 , -374510701489713121556985986696)

J-INVARIANT

J = (645581024581161550915700226229011291855993814970865/70153623559585852656194400661521086351511877632 , -140436482622292265973
602:1345349631150970768230610697615587585864687099500137282602862971054422:90587904)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 11 Z.

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V), HERE IS

U = (36671105935 , -42288588)
V = (853143310170112 , -2410536736224)

NU-P-VALUES

P	NU-P	TYPE OF DECOMPOSITION
3	1	0

.....

.....

X= -14 D= -878
A= (-2500536038427 , 93957261228)
B= (542642757246209906 , -88114093710017868)

J-INVARIANT

J= (-34750403472491110732779531237123927081015009463518968 , -3804847524655444604481409366617624592488751564765815559872)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 11 Z.

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V). HERE IS

U= (847425 , -15714)
V= (149361408 , -9335088)

MU-P-VALUES

P	MU-P	TYPE OF DECOMPOSITION
3	1	0

.....

.....

x = -13/2 D = -6042

A = (-22019627457787707 , 143043311296856)
B = (638854252179120323623926 , -24454493995832070219016)

J-INVARIANT

J = (-86431563482528424710348490338153057/6652277720596719400483879932035072 , -7500455933757688571876492238468417833972424472708
91677585328396885782298624)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS $2 \times C_2 \times C_2$.

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V). HERE IS

U = (51633795 , -591918)
V = (563813332992 , -8291372544)

MU-P-VALUES

P	MU-P	TYPE OF DECOMPOSITION
3	1	D
11	1/3	R

.....

.....

x= 9/2 D= 416

A= (-4707644881003 , -195237843048)
B= (7596617383376652710 , 287296381996646904)

J-INVAR[AMT
.....

J= (-1681581387921455312055738511740331997791944704 , -3449002014511057964759745839/1451951920510009344)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS $Z \times Z \times Z$.

A GENERATOR OF THE TORSION GROUP IS THE POINT G=(U,V). HERE IS

U= (488283 , -23820)
V= (-1813935280 , -90699264)

MU-P-VALUES
.....

P	MU-P	TYPE OF DECOMPOSITION
3	1	D
11	1/3	R

.....

X= 13 D= 1557
A= (-297028372231891 , -115027105160)
B= (2641529644462743028094 , 12624937623552015736)

J-INVARIANT

J= (-1356795161220066094186406886865039/311004637107172190266343093392 , 5808290426356978870629346373704883/72962205083078292522324285257728)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS ' MOD 11 2.

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V). HERE IS

U= (-4325937 , -340524)
V= (-19543949368 , -888361344)

M2-P-VALUES

P	M2-P	TYPE OF DECOMPOSITION
3	1	0

.....

X= 41/2 O= 658

A= (-277575612051:92946411 , 9969638443509753360)
B= (2967861684028:39569212625538406 , -10768998292632702004142827112)

J-INVARIANT
.....

J= (+413912199602951649960181747499380089544944310171/9231373164198311388847580449116876447533888 , 96056513906337203662115433997
1596186744837466200107/549574150534653875600874159296825900569081020416)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 11 Z.

A GENERATOR OF THE TORSION GROUP IS THE POINT G=(U,V). HERE IS

U= (1422098347 , -442910252)
V= (-150783255192576 , -16758164307456)

NU-P-VALUES
.....

P	NU-P	TYPE OF DECOMPOSITION
5	1	D

.....

.....

X= 69/2 D= 581098

A= (-171649535088019415351805 , 270395264078829197912)
B= (46604553677406368807806387983698550 , -57585304856876453518047233182216)

J-INVARJAMI

J= (-3528966327468115777513229540099607635424400255149341169/57391397156967319796189890313254681996295055179776 , 77914421092585
3905808723362094082702907103624235699174659/966241562534701796088632996681155826899623549006703736)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 31 Z.

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V). HERE IS

U= (142961842563 , -273010380)
V= (-4969735651965440 , -19114367122944)

.....

X= 35 D= 37991

A= (-50994135371630124771 , 304391624236548024)
B= (251742599686024850020296491662 , -1125156846058902763412216328)

J-INVARJAMI

J= (-50049425033257084071434629741544200483967709019/7580403382666260152584728379290000000000 , 55782348715812981095573256670705
5662232251557677/16471175340385784531108860582492950000000000)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 31 Z.

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V). HERE IS

U= (2476935879 , -18072876)
V= (-10610885360000 , -160770960000)

.....

.....

X= 99/2 D= 1784038

A= (-59428776652360351631703803 , 12517724164140715493592)
B= (35037531528029162937109267952730514870 , -26367100420103016947915441624202376)

J-INVARIANT

J= (-85355011981670692423594357114811761826133907967611173775579/23390206558515968034354821144238812668533752854224896 , 25342175
172809511174307165475254209133864181924349645635040229/92749554869494560253461136997531123186544826208403331874816)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 11 Z.

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V), WHERE IS

U= (1709188871405 , -1155286860)
V= (-45919747619665920 , -120441441104384)

.....

X= 50

X= 50 D= 28754

A= (-1041446402940812571 , 6443083600210188)
B= (612643786333765504383085938 , -363328949044722220394844)

J-INVARIANT

J= (-265328386592793226984812150821193613799259/69221484630910386510467529296875000 , 7200567101350952567906794766559347718575179
/31841842654218777948150636765425000000)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 11 Z.

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V), WHERE IS

U= (416025921 , -2318898)
V= (-18430000000 , -3881250000)

.....

K-1

.....

X= -96 D= -57599

A= (-20404392527740617432 , 66926997615619800)
B= (27505053224100967576501067456 , -178618750924270789518737600)

J-INvariant
.....

J= (6716156912533495614295839548983325744878411/8723817403914240000000000000000000 , -645388209807955122912900129996857846384184
9/523429844234854400000000000000000000)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 11 Z.

A GENERATOR OF THE TORSION GROUP IS THE POINT O=(U,V). HERE IS

U= (2774149062 , -3985350)
V= (175575859200 , -3583180800)

MU-P-VALUES
.....

P	MU-P	TYPE OF DECOMPOSITION
3	1	D

.....

.....

X= -177/2 D= -11591474
A= (-3376325264056553972567330347 , 8095309225995155703666000)
B= (1812215752415232702711788172578039538500486 , -840227907115546743862482421141726063880)

J-INVARIANT

J= (769680474429855176725540770872110925130534816198445662400659613523919/1522051398004864006160081449275353778672023095958304000
0000000 , -13466668463185650399837365997736825929580430877046452440146117547760511/18935829211067708752684746822608583783046158510
86186579200000000000)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 11 Z.

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V). HERE IS

U= (113242109118747 , -11792504780)
V= (1817343764391720460 , -2510143320983840)

M_L-P-VALUES

P	M_L-P	TYPE OF DECOMPOSITION
3	1	0

.....

.....

E= -01 D= -11301
A= (-2924907669462525433209907 , 23260017016056223204040)
B= (1424094250594507513302065355714642494 , -23590576666095143924940051739406520)

J-INVARIANT

J= (53940930835292337721759636513037700452494180906362490744101/1600029497508025962631503033000740092464090000000000 , -373631040
0169355062403415963003112915901620360502090117404129/2325510210069633350543414436563195107323051930000000000)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 11 Z.

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V). HERE IS

U= (1058056755903 , -3621215220)
V= (2099157100319360 , -60517033326720)

MU-P-VALUES

P	MU-P	TYPE OF DECOMPOSITION
3	1	0

.....

.....

I= -147/2 D= -6690534
A= (-3855012036973127001020075547 , 131007596925270066076120)
B= (66164143865221773704729935726030513744006 , -40612234013951110092009645079601000040)

J-INVARIANT

J= (3404059507060052772623011692041709321054940404957297736202193500479:17693035920336963644020160623092716412144:439655360000000
000 , -76131533222051769501270201513122104036401909357436041044091312712501716125432945004300665159901603015021730020:720101095104
0000000000)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 11 Z

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V). HERE IS

U= (30573291910227 , -5613513340)
V= (604526586402977280 , -1000540706296320)

MU-P-YA, JES

P	MU-P	TYPE OF DECOMPOSITION
5	1	D

.....

.....

I = -66 D = -76226
A = (-65695959602148504867 , 220276000503957100)
B = (141948270592060510273007207226 , -1063020319507803196169006060)

J-INVARIANT

J = (5043243940974767519719434600853500490704507297/534633998795705140105560040375460750000 , -01346726747957696072742609262753503
2820097302299/27170099010001000024230560020201321075000000)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 11 Z.

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V). HERE IS

U = (5050016077 , -7151010)
V = (1219316555360 , -17931125520)

MU-P-VALUES

P	MU-P	TYPE OF DECOMPOSITION
3	1	D

.....

K-6

.....

x= -117/2 D= -3421994

A= (-272420715612075172266450747 , 143129267267327900341000)
B= (1146326723515032169704973700315425260004 , -1410355621440349461090309940045301000)

J-INVARIANT

.....

J= (4447204012029941533374400704550917190406071737451205679220426039/77170901041756340020053379501502641601542500000000000000
-120344007469767104036754276901612490000043240570207171590075770291/4514502390042745930019922705522504533691406250000000000000000)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 11 Z.

A GENERATOR OF THE TORSION GROUP IS THE POINT O=(U,V). HERE IS

U= (10350215096307 , -2255303500)
V= (156722931505792000 , -325007799000000)

MU-P-VALUES

.....

P	MU-P	TYPE OF DECOMPOSITION
3	1	D

.....

.....

X= -51 D= -143039
A= (-13676471539740031044307 , 37043354900004755060)
B= (385663915537800217026499751040094 , -2594655099015721574232732345400)

J-INVARIANT

.....
J= (7027169731076133655021703614179710170065785520221171/2551630779410277915051677543206645610000000000 , -1292046440045704029960
125922051260257609176117321046157/15746162907740025006370702119621000059310000000000)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 11 Z.

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V). HERE IS

U= (73600001423 , -01511900)
V= (136300517044400 , -1205929406000)

MU-P-VALUES

P	MU-P	TYPE OF DECOMPOSITION
5	1	0

.....

K-B

.....

S= -07/2 D= -1437054
A= (-9064536715414450961523947 , 8193036736900369923480)
B= (6130429395571272973001110401338394886 , -14826997605135500029678049537572360)

J-INVARIANT

J= (826275619377823224863744946425063192534246903752661584070999/719889939053773950262516902514913768380020160000000000 , -330146
65482907591794357122119507315006973190614661387469675801/2379956130511776679547880879714304918266991448960000000000)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 11 Z.

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V). HERE IS

U= (190499004997 , -691477260)
V= (27586449026693120 , -75237497326000)

MU-P-VALUES

P	MU-P	TYPE OF DECOMPOSITION
3	1	D

.....

.....

X= -56 D= -3239
A= (-15418301006027 , 311488819820)
B= (12422641881560156054 , -758246226244027760)

J-INvariant

J= (2768019015701235690045097504721/7110913239555390000000000 , -8012639779167102394724760938359/63990219155990510000000000)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 11 Z.

A GENERATOR OF THE TORSION GROUP IS THE POINT B=(U,V). HERE IS

U= (2800983 , -19860)
V= (67315060 , -3582940)

MU-P-VALUES

P	MU-P	TYPE OF DECOMPOSITION
3	1	D

.....

K-10

.....

x= -57/2 D= -422114
A= (-77660220676939544675147 , 145526676514619713540)
B= (3968203004334360498490603823450086 , -24388504372684506218487222342920)

J-INVARIANT

J= (30791577078300004741175545160032673001371659727975479/338255789902200093324812650015732216440000000000 , -2369144740808185255
910770760441874486765991805220505151/50129500635060538307372644908915145040480000000000)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 11 2.

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V). HERE IS

U= (175720420267 , -120644420)
V= (2374300063000640 , -9485200258560)

MU-P-VALUES

P	MU-P	TYPE OF DECOMPOSITION
3	1	0
11	1/3	R

.....

K-12

.....

X = -27/2 D = -50774
A = (-26612132075199476347 , 141308542016049240)
B = (21341270311510691518123690486 , -4522828526339053146093660680)

J-INvariant

J = (+7048621123557248373102257921656299743175295231/2618266198961041986660356549295040000000000 , -687524735519905764069787027211729298130811938461/96970462320728899096263953163323120000000000)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 11 Z.

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V). HERE IS

U = (2845182147 , -7013580)
V = (51884419246560 , -257132413440)

MU-P-VALUES

P	MU-P	TYPE OF DECOMPOSITION
3	1	D

.....

.....

X= 5 D= 43
A= (-5665500531 , -707184136)
B= (216190239438942 , 52824536466552)

J-INVARIANT

J= (-1348379101780796247921/939000000000 , -2123085477557407360747/989000000000)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS $\mathbb{Z}/2 \text{ MOD } 11 \mathbb{Z}$.

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V). HERE IS

U= (-5601 , -3756)
V= (-12960000 , -2160000)

.....

.....

X= 11/2 D= 982
A= (-11831657438812 , -2521675605800)
B= (534309891122751340566 , 10687095350076564216)

J-INVARIANT

J= (-469160914735845688110035775131/65648870921964917507968 , -21739971339439989582274014150771/95322160578695060337729536)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS $\mathbb{Z}/2 \text{ MOD } 11 \mathbb{Z}$.

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V). HERE IS

U= (-2004333 , -113564)
V= (-17001363456 , -607191552)

.....

a= 27/2 0= 27958

A= (-1887464103071316507 , 881255615812056)
B= (1553597298716093101529256086 , 822345649735071018751224)

J-INVARIANT

J= (-5157102871781503160824452084637565600839177/10030405995614727305312480:5586714877952 , 5178084603512916126387964581581842905
187439172058239310809142042639720927983938929557504)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS $Z \times MD \times Z$.

A GENERATOR OF THE TORSION GROUP IS THE POINT G=(U,V). HERE IS

U= (-306841485 , -6350028)
V= (-12841927391232 , -139586167296)

MU-P-VALUES

P	MU-P	TYPE OF DECOMPOSITION
3	1	D

.....

X= 21 D= 713
A= (-90965193337065267 , 939737203012344)
B= (17749360754442763096018534 , -130457032988154957232776)

J-INVARIANT

.....

J= (-75006918132363573996812930859432208583/14779923496729615280412437:3358848 . 6:7857907945548490447441933325523249:07:10552865
3766649453102:448011338217472)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 11 7.

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V). HERE IS

U= (30524415 , -2345388)
V= (-434193615056 , -11426347712)

MU-P-VALUES

.....

p	MU-p	TYPE OF DECOMPOSITION
3	1	D
11	1/3	R

.....

.....

X= 71/2 D= 635422

A= (-249164014575028402657611 , 367918786734959638040)
B= (78883312339475375254357606762385846 , -94046852181425152495377217869064)

J-INVARIANT

J= (-81386997294765276467323627592117103762597022097953165521/115059678311652391342052181209114868973152175423488 , 1028798199074
827975045331752967903208272169496606240830649/2958647764352084585891997626193485255667638722677047296)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 7 MOD 11 2.

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V). HERE IS

U= (17545854827 , -506028044)
V= (-5931198563383296 , +22131557925072)

.....

X= 36

X= 36 D= 2595

A= (-4314524963707 , 99548255536)
B= (5664686320432095174 , -106188790935513744)

J-INVARIANT

J= (-98896671475462154462563528533/130465900836755515264128 , 139990569838722975249832143809/9393400860244956955017216)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 7 MOD 11 2.

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V). HERE IS

U= (739275 , -19752)
V= (-48185988 , -2834352)

.....

.....

X= 101/2 D= 1897642

A= (-1976217266000124244556411 , 15463186406019355215960)
B= (50493591265080156970593371146592976886 , -36876597024023358446393557540420104)

J-INVARIANT

J= (-15874829304257722064032497889847580064999936490030927565361/394352775450322574538814029271971943214963887096423808 , 43313681532275358553354943184847101305297727395250905538219459/14816622479219519770572354522406529850472623166001864114176)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 7 MOD 11 Z.

A GENERATOR OF THE TORSION GROUP IS THE POINT G=(U,V). HERE IS

U= (1951283911107 , -1251425484)
V= (-51907952005871616 , -133783381458452)

.....

X= 51

X= 51 D= 122263

A= (-5450244327509829663267 , 1674275705656559514)
B= (230594958439748903232918078076494 , -663715064498379157975549611016)

J-INVARIANT

J= (-190940907934608847383789061709753964533504031082525/43184023578967829318546087405185728692712448 , 26187528249824585977221606028661854343505507788574397/2166217960787717764056709943020460385352863475712)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 7 MOD 11 Z.

A GENERATOR OF THE TORSION GROUP IS THE POINT G=(U,V). HERE IS

U= (32540314535 , -81355168)
V= (-107690742625536 , -1098885128832)

.....

.....

X= -191/2 D= -14519102

A= (-02426605265250665745500061003 , 17060712977065149390345752)
B= (7052661920967207016725563502015275061423910 , -2095615062402069796360253900240604330696)

J-INVARIANT

J= (7135639022610785101396527007720574257256910379094704043635730222497031/952178551291155050406615026507193902026219223975019403
05263616 , -110607042094705502016001019929170024006410752261241499970404246500027201/144764650044102050472071002102210624251330265
95626606224701939122176)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 11 Z.

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V). HERE IS

U= (176359341652603 , -15906740620)
V= (2055715069004462000 , -3461178169390336)

.....

.....

a = 00 b = -44527

A = (-7356360061040001360 , 20529096377500632)
B = (5019225169932261006052169920 , -45795160177954536972051136)

J-INvariant
.....

J = (47094553043697633265757762090366667464979/975314475915000600957530021245904 , -500965614232069076051167340793770351002619/5420600372942937072920503351043549664)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 11 Z.

A GENERATOR OF THE TORSION GROUP IS THE POINT G=(U,V) HERE IS

U = (1671952390 , -2014510)
V = (104740542720 , -2327567616)

.....

.....

X= -161/2 D= -8761042
a= (-11144104723530320201000460203 , 3204000997190257219943832)
b= (334495311320071667725559411234052007097030 , -200530363972011364172474724707096354056)

J- INVARIANT
.....

J= (48341719209533502910449235911159439393049971229757699004226397909231/15630719000077493700710730120632056385930532099429400600
16096 , -965042340735644042030334403075706000531721704601146947406373911063711/170110493396312210441055302340919755761913539157350
703006355693056)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 11 2.

A GENERATOR OF THE TORSION GROUP IS THE POINT O=(U,V). HERE IS

u= (63327041900923 , -8074735500)
v= (1036019355970959360 , -1369726296923696)

.....

.....

X= -75 D= -410517

A= (-060200707726040750060243 , 1204291000409965060520)
B= (223510037275550264099942561702004510 , -667030104179663016993031232115976)

J-INVARIANT

J= (256217060047174027267513345006956320221220076477179952079/12724300995003745019074673204766106026767003034624 , 2929303560064
3757457233233000100199705115216065391670316607/1573513400040075676647741037047706195371760050067673000)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z 400 11 Z

A GENERATOR OF THE TORSION GROUP IS THE POINT P=(U,V) HERE IS

P= (579379134407 , -541404140)
T= (1133566006340000 , -7557112700992)

.....

.....

x= -151/2 D= -4770962

A= (-1009050164755257291220350005 , 429014269071920400042712)
B= (0521644907950014176540215221075796601750 , -0115290663569549222342444755561015016)

J- INVARIANT

.....

J= (110794242501609061773451551360755031141627022705212760019534440051/1151436248370161429890531051092560525126761250202247060057
6 , -303239364000661016147055104000050135000625261333302066319710615141/02409290506871765071000776400450506520932700960037747400
433536)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 11 Z.

A GENERATOR OF THE TORSION GROUP IS THE POINT O=(U,V). HERE IS

U= (10030600422963 , -3542223100)
V= (305501700107274240 , -565052200190656)

.....


```

.....
s= -50      D= -52138
A= ( -14705841973289677283 , 62798497684993276 )
B= ( 14326715500209173790603867610 , -143790784718568680299012500 )

```

J-INVARIANT

```

.....
J= ( 1503136040700043669910959973017189495682413053/273069426301930784749931563035418038608 , -2189021992660227059/227747224400535
248202954439/981957656981743101960753900675363266834368 )

```

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 11 Z.

A GENERATOR OF THE TORSION GROUP IS THE POINT O=(U,V). HERE IS

```

U= ( 2405390973 , -4236610 )
V= ( 568314429120 , -8471907152 )

```

```

.....

```

.....

X= -101/2 D= -2223562

A= (-5062246093841853136967503 , 34409510442504409426392)
B= (84947380219531200306419439642096914070 , -14612255536997755640646951390579976)

J- INVARIANT

J= (51549991299705298405730411121117324919462410064273345027311/197470505610360741740731582865657341071562010064390336 , -17410092304273665327543360820779059696205201337102704062699451/869616347305704562364714398307200667142730506271264512406)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 11 Z.

A GENERATOR OF THE TORSION GROUP IS THE POINT O=(U,V). HERE IS

U= (445792232203 , -1253907640)
V= (65055940421150720 , -156709077193216)

PM-P-VALUES

P	PM-P	TYPE OF DECOMPOSITION
11	1/3	R

.....

.....

x= -43 b= -06007

A= (-1939749071071548392243 , 7150930326331202160)
B= (19007914030510500761637742007070 , -109596967703119269744377440096)

J= INVARIANT
.....

J= (550507062157270413629225645512374029710509206003569/311655520346022992153004726:77959026113096704 , -111492002302369304031430
80:14304051632301990342450757:2060111445574624934202760463211315617149156077548)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 11 2

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V) HERE IS

U= (27073351007 , -41270700)
V= (40070001562000 , -553322604032)

.....

.....

E = -71/2 D = -796222

A = (-904992536739207653276203 , 1170734242738213910072)
B = (175452109500043555301903422550609990 , -672431006745571932312509001042536)

J-INVARIANT

J = (22002458820206764905019070090021893692335504181442132631/6368722702499455300705451570716602077440963666595136 , -1106606703
0010120103542715245477833264002607315104679550001/162000644572517779120426070640597604209910100019241271296)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 11 2.

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V). HERE IS

U = (602903904443 , -307772940)
V = (0325500552012000 , -27751095173376)

.....

.....

b= -20 D= -1567

A= (-920057032523 , 20667110672)
B= (162014742101958950 , -16756304002364704)

J-INVARIANT

.....

J= (1704717726900545605749195019/22000336100700015090624 , -0932676335375255005677525109-1236490032039640000322044)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 11 2

A GENERATOR OF THE TORSION GROUP IS THE POINT B=(U,B). HERE IS

U= (607227 , 7320)
V= (15550400 , -1037232)

.....

.....

X = -1/2 O = -164402

A = (-2122585613239798741003 , 6628148848210384352)
B = (15821222580418419539668932265510 , -186093325563627484995834639496)

J-[INVARIANT
.....

J = (12218488416051137579028482579399986348300643276831, 242351115449754978413941140927871708069974016 , -3930652295950595392575
069088587792926625559248309431, 1947533556485407028651596510084640115405031192576)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS $Z \times MO \times Z$.

A GENERATOR OF THE TORSION GROUP IS THE POINT C=(U,V). HERE IS

U = (28185071883 , -35083020)
V = (34538182964480 , -1914102683136)

.....

.....

X = 13 D = -2857

A = (-4426174859799845 , 97761844471408)
B = (45875255961122999185230 , -4055091039912251851816)

J- [AVAR]ANT
.....

J = (-276563178745428673641587561642349055171088103660009375642742240910950944 , -12152625473074137746148952085049177552748094181
7724144034092070482631477248)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 7 MOD 11 2.

A GENERATOR OF THE TORSION GROUP IS THE POINT G=(U,V). HERE IS

U = (36170727 , -380460)
V = (50510476160 , -1678015872)

.....

L-13

#####

X = -11/2 D = -4542

A = (-4537922024470203 , 17206602726232)
B = (8100596544560386845630 , -3619854394020728846856)

J-INVARIANT

J = (435074886741170218411428280205319021/2898751572709060712212053694119936 , -144638752045488797630016385254281282861/2665691946263259587752045771126931856)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 11 Z.

A GENERATOR OF THE TORSION GROUP IS THE POINT Q = (U,V), WHERE IS

U = (20529128 , -381900)
V = (230732739760 , -3845546496)

#####

.....

X= 6 D= 22
A= (-11855027 , -2665172)
B= (25191550266 , 4916780552)

J-INVARIA
.....

J= (-112495466149011/102951456 , -288122994470311/1235777472)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 11 Z.

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V). WHERE IS

U= (-1155 , -354)
V= (-139968 , -34992)

.....

X= 15/2 D= 1946

A= (-500120151157947 , -11932276858920)
B= (4409354519187205836886 , 142693551018971944440)

J-INVARIA
.....

J= (-5544796620075202694845951892148801/1224096583051762024000000000 , -20907466566399046638322356540404101/319305053593458124160000000000)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 11 Z.

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V). WHERE IS

U= (-8842413 , -272460)
V= (-71668907520 , -1974156320)

.....

.....

n= 43/2 D= 129686
A= (-497299249540549149147 , 1551825042491923160)
B= (7217516841615039356529940336586 , -13239360416934282557666170120)

J-INVARIANT

J= (-20430651309218214532920982372200671769993822740441/3568465400247992048675:28002146294400000000 , 3415320220340635383616154
46150501827971855023072429/21482161709492912133024330729206922880000000000)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS $Z \times \text{MC}$ 11 Z.

A GENERATOR OF THE TORSION GROUP IS THE POINT G=(U,V). HERE IS

U= (2393398867 , -41231820)
V= (-258047817451040 , -1654152675840)

.....

.....

X= 22 D= 2182
A= (-39318787042083 , 846342146556)
B= (161268906446195519450 , -2355796495224685548)

J-INVARIANT

J= (-1655896240521476926297486283677/25716416725773995078621808 , 154416471610958667279365288:64321/1120207122574715225624765958
8)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS $Z \times \text{MC}$ 11 Z.

A GENERATOR OF THE TORSION GROUP IS THE POINT G=(U,V). HERE IS

U= (819453 , -88290)
V= (-1138484160 , -56924208)

.....

.....

X= 75/2 D= 693026

A= (-351954567714886952490347 , 495930427762258770840)
B= (131529451607604219212009072014500486 , -151414390969162428038090366591080)

J-INvariant
.....

J= (-1029594833967618912057414410000027382454882125309493983081/225439259516137776353541460507815084305040000000000 , 417602794803
2535511344665985140531450274473765095125501239/427883714561629499519021692043833030007169920000000000)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 11 Z.

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V). HERE IS

U= (215692982747 , -541952740)
V= (-7042856467496960 , -25517525432960)

.....

X= 37 D= 45193

A= (-101762846055212515843 , 560405402488914008)
B= (644423760677815701491693956810 , -2915877176255760083617851016)

J-INvariant
.....

J= (-23601527375468282572310194392304973780244644621/26497834699933989362813469277651208930304 , 2503685033776047.836219024222463
29094915046267723/111784035709626422263895411736266774285826048)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 11 Z.

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V). HERE IS

U= (3675432927 , -22546060)
V= (-34942101960960 , -213744335328)

.....

4.1

.....

I = -95 D = -893459

A = (-10921471110130970330677731 , 15832364008360497924664)
B = (24496463290406152505601623037762034542 , -40697935919770036955679573520723040)

J-INVARIANT
.....

J = (510095058267275970937474346115311467920927692600714677006117103213153501754341099309401040032334901010000000000 , -44593500767992934707004014260017045612207142730030006002753353146072503559104799000240266097101309841436797910000000000)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 11 Z

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V) HERE IS

U = (2672614059799 , -970421556)
V = (5406361472160000 , -27067042640000)

MU-P VALUES
.....

P	MU-P	TYPE OF DECOMPOSITION
3	1	D

.....

K 2

.....

x = -175/2 D = -11200494

A = (-29555778848134386709914281611 , 7242893885903001036952296)
B = (1479629764321488469438880584651962323058910 , -737883622415053475664563284827058973448)

J-INVARIANT

J = (552132586790514393412725303606081571004248439113720101677595893557639/115802472901542416545031252160487081818393968750000000
0000000 , -9823442788454271400908519240485855229471081637961558615654827720737409/148342967786875835619805034017583963978862673968
75000000000000000)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 11 Z

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V). HERE IS

U = (104003542256449 , -11268622476)
V = (1498830431200000000 , -2372668200000000)

MU-P-VALUES

P	MU-P	TYPE OF DECOMPOSITION
3	1	0

.....

.....

x= -00 d= -33599
a= (-2412548344764297576 , 11230753799093976)
b= (1063464198535304352013370040 , -10343442506000836407456440)

J-INVARIANT

J= (52557071654856003895424242951102479247251/1007386730337267099220160000000000 40952528664381777491842112035454702642661/456702426741652181675827200000000000)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z #0 1: Z.

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V). HERE IS

u= (961442006 , -1922006)
v= (59512320000 , 1451520000)

ML-P-VALUES

P	ML-P	TYPE OF DECOMPOSITION
3	1	0

.....

.....

I = -145/2 D = -6433304
A = (-3206330473913009037707017131 1153254210976463520000216)
B = (51047164090000952312900799711436675226750 -39202274543240063159161176365072305200)

J-INvariant
.....

J = (10073010251551341207064740304595001600640556744475440165995399079/105309150687036640305001510340164490497605171036000000000
- 429024964152216764710057752617520194112007657534530319922507500750/935223403062763324256503473750637436675750070560064000000000
00)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 11 Z.

A GENERATOR OF THE TORSION GROUP IS THE POINT B=(U,V). HERE IS

U = (35635642405051 -5314407456)
V = (557241464113920000 -93496009520000)

MU-P VALUES
.....

P	MU-P	TYPE OF DECOMPOSITION
3	1	D
11	1/3	R

.....

.....

X= -65 D= -291509
A= (-225384189650007010105971 , 380070246173520184024)
B= (283697575466911115582:0209055211262 , -109955420917701493070924279006720)

J-INVARIANT

J= (88529046599000356192403451739975615240592063851251705701/0700144214015447328225460674053232703290000000000 , -113954471554895
8406054217385419995151502935550041556916423/7075709359971056253410230225345349754851130000000000)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 11 Z.

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V). HERE IS

U= (296469327279 , -214714476)
V= (570402012060000 , -4256731440000)

MU-P-VALUES

P	MU-P	TYPE OF DECOMPOSITION
3	1	D

.....

.....

I= -115/2 D= -3253094
A= (-223204571001657075660253051 , 121095595120113944631736)
B= (044472203604460761971839910672975309390 , -1000514744093769251301679705109957:20)

J-INVARIANT

J= (2695530034466400206700160211479161001016435349147130402067609279/512003100122112604101500150654409799074; 42600640000000000
: 79240403260139132635250170600444041073147757253044739009523042069/193510073430434734403020003075403734103971591530047795905997102
0429710620153274963607067704535197910606650659704160339391310402369153154576; 4222733255653403300999275347501750792752722544774007
0230042:402761176770161267125031979912052400359976110456337572330602054111390013756637201224469700000)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 11 Z.

A GENERATOR OF THE TORSION GROUP IS THE POINT B=(U,V). HERE IS

U= (9374015779411 , -2105323596)
V= (141550090699520000 , -297592627520000)

MU-P-VALUES

P	MU-P	TYPE OF DECOMPOSITION
3	1	D

.....

.....
x= 50 b= -33746
A= (-26595500000496771 , 14939407295909940)
B= (1036957037670207001616577330 , -14597012006715665594560044)

J-INVARIANT

J= (20272240117121790227950744313044075709614207/0190060950351931050302307120906250000 , -346211526141640501133643613507211094300
5:4771/22134706107550216017416229240046075000000)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 11 Z.

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V). HERE IS

U= (1020225021 , -2553600)
V= (23602500000 , -4536250000)

MU-P-VALUES

P	MU-P	TYPE OF DECOMPOSITION
5	1	D

.....

A-8

```

.....
E= -89/2      D= -1343594
A= ( -6953861735340064376951771 , 6552834401270742192856 )
B= ( 4074885475914499373343500495074554838 , -10392247491197016235005029602240960 )

```

J-INvariant

```

.....
J= ( 421200146256046751689923250954660174454980656591050305109399/41000900325999270744133911690730575915090704000000000 , -173006
16230630710603633000725291225709979023303650196224262099/1321744721260097193089514207914113770440719550000000000000 )

```

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 11 2.

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V) HERE IS

```

U= ( 1669262457171 , -630250956 )
V= ( 23091442635520000 , -67110793620000 )

```

mu-P-VALUES

```

.....

```

P	MU-P	TYPE OF DECOMPOSITION
3	1	0

```

.....

```

.....

x= -35 b= -87759
A= (-100324369481061253011 , 990677609442550504)
B= (523044640943200900650268070702 , -0277011092806249350749929400)

J-INvariant

J= (1406304000630772404138360070633483665420505933041/427260623906450422803309603775010000000000 , -5757:8943529240414049526:264
3961342024166356016093/1166443343265701654253253610307905070000000000)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 11 Z.

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V). HERE IS

U= (0697670959 , -10100396)
V= (14067257760000 , -202260240000)

MU-P-VALUES

P	MU-P	TYPE OF DECOMPOSITION
3	1	0

.....

.....
 X= -55/2 D= -204
 A= (-52294005056500420650091 , 4466400112097290053760)
 B= (2157273537630007353495751030451070 , -619647547240776763252605092774744)

J-INVARIANT

.....
 J= (117025949135109159046109003370000063595104496324631429/1640320050900527023400360772778553655360000000000 , -4657337764033470275704425714994167032095054555790130010947/25130299694049127100611222509701029029610540000000000)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 11 Z.

A GENERATOR OF THE TORSION GROUP IS THE POINT O=(U,V) HERE IS

U= (143944999131 , -4001709100)
 V= (1000775032320000 , -542603732160000)

MU-P-VALUES

P	MU-P	TYPE OF DECOMPOSITION
3	1	D

.....

.....

X= -20 D= -599
A= (-25696091891 , 1226759816)
B= (586397738179422 , -11512618875272)

J-INvariant

J= (38301097490872557087521/113013881000000000 , -102735157069789185914091/33904164330000000000)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 12 Z.

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V). HERE IS

U= (95819 , -1944)
V= (2227500 , -202500)

MU-P-VALUES

P	MU-P	TYPE OF DECOMPOSITION
3	1	0

.....

X= -5 D= -209

A= (-438145078851 , 1009909914)
B= (111442078839453102 , -18521253352852488)

J-INVARIANT

J= (807059614597961723000242501/4886414527405410000000000 , -5007873127517699274064992763/439777507466486900000000000)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 11 Z.

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V), WHERE IS

U= (190859 , -19116)
V= (272160000 , -1944000)

MU-P-VALUES

P	MU-P	TYPE OF DECOMPOSITION
3	1	0

.....

X= 7 D= 163

A= (-283557780215 , -22782519432)
B= (85935897629672670 , 6447850050387704)

J-INVARIANT

J= (-50070469560374941067143931/285597992792574895104 , -98929798442455546948822207/11495115697288145594368)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 11 Z.

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V). HERE IS

U= (-228995 , -24300)
V= (-218935680 , -24895568)

.....

.....

X= 29/2 D= 55570

A= (-4343175180984240203 , 5813940704920472)
B= (4897930472153025625794042190 , -1464389958678197912201736)

J-INVARIANT

J= (-5685649897337874459372628373035919816511056977772173345684857647094467930191477620736 , 600313782105775119368759202907889117
863707899718933014270088513228322127926666439484112896)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 11 Z.

A GENERATOR OF THE TORSION GROUP IS THE POINT G=(U,V). HERE IS

U= (-353903757 , -8478510)
V= (-20532450342400 , -205326505424)

HU-P-VALUES

P	HU-P	TYPE OF DECOMPOSITION
5	1	0

.....

.....

X= 45/2 D= 150106

A= (-849847648408157801291 , 250815139436021976)
B= (16851293087201512772920212369878 , -30558522680626427115476955608)

J-INvariant
.....

J= (-84750174005146024892855963206916453011927594762801/117374356791689750066494593529959236000000000 . : 45685624746229588955651
5290891899526218206328792971/78171321625265373544285399290939571356000000000)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 11 Z.

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V). HERE IS

U= (4259069331 , +49456716)
V= (-343976959720000 , -2097420480000)

.....
E= 23
.....

X= 23 D= 10067

A= (-278431836740043091 , 2909757439553560)
B= (96854478294096719935685534 , +696228775148662911604024)

J-INvariant
.....

J= (-156472182552112553738170503161140842033979/1937924596719668733126037687030210512 . 1363223066429245665005670974124495794860;
13/1693746097532930526940156938464290367488)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 33 Z.

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V). HERE IS

U= (83107743 , -3375084)
V= (-77177035908 , -18575479424)

.....

N-1

.....

s= -109/2 D= -14075010

A= (-72040159401186760420790626011 , 15594829215550073350541400)
B= (5044142764716050037355965774233226649254966 , -2455723306730192607676520030332355202104)

J-INVARIANT

J= (4535519324000073500460725707770111444071100419443012540026170527679/61053674315070756270113223922747419576190196021263501476
4200 , -60414922991700934197400420073423997106404702773273007102443373500051/9092045023092117072020502665262610692321150592904429
2057674060416)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 11 Z.

A GENERATOR OF THE TORSION GROUP IS THE POINT O=(U,V). HERE IS

U= (163071746250067 , -15327041964)
V= (2602652001240774654 , -3474930061710040)

MU-P-VALUES

P	MU-P	TYPE OF DECOMPOSITION
3	1	D
11	1/3	R

.....

.....

X= -07 D= -600763

A= (-6747450315124400276797091 , 6607250640270015347640)
B= (5095704101447034574604990951008295694 , -10202607601990539014022010265094664)

J-INVARIANT

J= (434011490291157034474902930356439205450640672310396740095361/9396549574452000140100141134003345042317232207240192 , -3901321476332460402701926491550744530020009036466007033920417/140704965961540957410739026747476933732051054769441200120)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 11 2.

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V). HERE IS

U= (1602052340263 , -600350924)
V= (3207007320231160 , -10017400675456)

MU-P-VALUES

P	MU-P	TYPE OF DECOMPOSITION
3	1	D

.....

.....

X= -159/2 D= -8443590
A= (-9630092972960426391316990411 2035503060077470760951320)
B= (267692033237116743709730702140522775600006 , -165010122840561105455095314000756004024)

J-INVARIANT
.....

J= (3354559363021900243793006130522742909095062790640534063462790591719/11502304022215072245405102619054264550035357002470302006
59960 , -601027175243200000490300022691666101570160365907964413229655670242161/123017975077710725332096675037520410209752494644419
390960496521216)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 11 2.

A GENERATOR OF THE TORSION GROUP IS THE POINT O=(U,V). HERE IS

U= (60760064971107 , -7601233004)
V= (962024047522370776 , -1475490232396200)

MU-P-VALUES
.....

P	MU-P	TYPE OF DECOMPOSITION
3	1	0

.....

.....

I= -72 D= -24623
A= (-705007210561246216 , 4015009420009600)
B= (162052953097007337331221696 , -2005097031050405559109104)

J-INVARIANT

J= (1507040245250730744077227967005410250001/07309217270070534732710552325072 , -2159047122015220313030723702205413005759/20059752309100127070500376094490624)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 11 2

A GENERATOR OF THE TORSION GROUP IS THE POINT G=(U,V). HERE IS

U= (522432942 , -1262094)
V= (31000791296 , -861643000)

MU-P-VALUES

P	MU-P	TYPE OF DECOMPOSITION
3	1	0

.....

.....

I = -120/2 D = -4559370
A = (-044046267299644997917397611 , 369397561490163825463240)
B = (6403446601690020350009604169576581682246 , -6382950051740094046162012392045747444)

J-INVARIANT
.....

J = [759360197640034035144990796405436894551752993220497497083740290797044049706407676377322707215243063805772205501921031426640
-1971509322229264960500776163300364364319912536533690075325096476751755456011544557145046369601051057066655764075134106531779942
0096]

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 11 Z

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V) HERE IS

U = (10140397005427 , 3331074444)
V = (279013210105706496 , -524460921251320)

MU-P-VALUES

P	MU-P	TYPE OF DECOMPOSITION
3	1	D

.....

N 6

.....

r= -57 b= -198173
A= (-4926418212581207423029; 100659267232607703800)
B= (2759534453376046905555725304565214 , -14406078635009706325495051796744)

J-INvariant

.....
J= (1940138673095603303067016523023105624444670222442267141/380400322239336765571897230540540102940040202752 , -28903296456129340303299024654330503052130804597702915327/2700991472032347067869733411790540550650650401937400)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 7 MOD 11 2

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V) HERE IS

U= (139321571903 , -127075004)
V= (262594121004200 , -2225373906016)

MU-P-VALUES

P	MU-P	TYPE OF DECOMPOSITION
3	1	0

.....

47

.....

x= -99/2 b= -2097158
A= (-39757403160923461729032411 , 20488996240234126403160)
B= (59674496797931545669406409007195051206 , -107447102344250712007367655701034504)

J-INvariant
.....

J= (3175472170437179666145065520134140509102963792420173672306749/1356465070235346913394030439026312437024050237770025720 , -1206
234252031434253641601132607901127321966709465100041460823941/632237094110469313550027030095525616770290052159079705214976)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 11 Z.

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(u,v). HERE IS

u= (3976700129907 , -1157719004)
v= (50540374611490016 , -142000207091060)

mu_p-VALUES
.....

p	mu_p	TYPE OF DECOMPOSITION
3	1	0

.....

V. 8

.....

T= -42 B= -20202
A= (-362236305942516771 , 2709000000376060)
B= (40177747410714540339640346 , -1009006796956902901990572)

J-INVARIANT
.....

J= (129644744190195426985342754940345160173297/137509000222201957037109502043003904 , -270069567355470207065171642052602957772575
97265667550445440742541295557947230257000)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 11 2.

A GENERATOR OF THE TORSION GROUP IS THE POINT U=(U,V). HERE IS

U= (301050557 , -1174242)
V= (03023901304 , -1932363216)

MU-P-VALUES
.....

P	MU-P	TYPE OF DECOMPOSITION
3	1	D

.....

.....

r = -69/2 b = -732938
A = (-656079546924757916198811 , 891622921608861445080)
B = (106796510615005818428492791311899926 , -436297438247967422062017658875144)

J: INVARIANT

J = (80356088654395479575037596449672762013692497018114095109/299106947049347642236939503958798019370526916968440 , 5180590129155
8773256176045227998080022835183398434858417731/69922829412637701696451717771456130584284818433548025856)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 11 Z.

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V) HERE IS

U = (51331059987 , -274706124)
V = (7045367711348736 , -24127971614208)

MU-P VALUES

P	MU-P	TYPE OF DECOMPOSITION
3	1	D

.....


```

.....
x= -27      b= -22503
A= ( -10424655750440305091 , 85321317120405960 )
B= ( 6022311270004002066425082334 , -167175504560007941003033224 )

```

J- INVARIANT

```

J= ( 700000200236455132643102110329117077939632721/11122057352255070050055500477931492510912 , -3061461427461321003309190074967907
3761307290037/10619663207676326470524241720057310476650600 )

```

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 11 2

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V). HERE IS

```

U= ( 2050261343 , -6490204 )
V= ( 3302314032600 , -56936462976 )

```

MU-P-VALUES

P	MU-P	TYPE OF DECOMPOSITION
3	1	D

```

.....

```


.....

X= -9/2 D= -2498

A= (-606591177942411 , -3684309859080)
B= (9799282582548092004006 , -370764954973245529224)

J-INVARIANT

J= (1002565690522715346219192773010315197335462506785280815334885413229568 , -99967229814537340059727099289481111/450225454152591
858984948648896495616)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 11 Z.

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V). HERE IS

U= (7001547 , -245008)
V= (80178149376 , -1541887488)

MU-P-VALUES

P	MU-P	TYPE OF DECOMPOSITION
3	1	0

.....

X= 15/2 D= 3406

A= (-2525100955920171 , -42469133840744)
B= (71684563343119951957658 , 1157510901764614578232)

J-INVARIANT

J= (-228087560627225249862201502193473201/482481970297346474784000000000 , -1641412771470816359567650893595755199/202642427524885519409280000000000)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z 490 11 Z.

A GENERATOR OF THE TORSION GROUP IS THE POINT G=(U,V). HERE IS

U= (-22486629 , -534136)
V= (-215550720000 , -4898880000)

MU-P-VALUES

P	MU-P	TYPE OF DECOMPOSITION
3	1	D

.....

X= 15 D= 2491

A= (-1579577394495411 , 10543698336184)
B= (34621242669460031201982 , -88133084967553734408)

J-INVARIANT

J= (-14969159904887616960053401653757169/171631665012251477979000000000 , 1038208265812107139116428755297183657/6230229139914728
63065770000000000)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS $Z \times M10 \times Z$.

A GENERATOR OF THE TORSION GROUP IS THE POINT $Q=(U,V)$. HERE IS

U= (-5720241 , -607396)
V= (-50038560000 , -1924560000)

.....

P	MU-P	TYPE OF DECOMPOSITION
3	1	D

.....

.....

X= 77/2 D= 818458

A= (-68305841232248917444507 , 877967280576296836056)
B= (350718517642174027819528758927123286 , -376606530803016592113466581595976)

J-INYARIANI

J= (-77936619015543201494571397146998598701640436555013492707/73772906142072266603188321442351646219896574738432 , 20160993975486
826115897469540745322831472333193481874153131/17246039814684517908360540280221429040117662069752725508)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS $Z \text{ MOD } 11 Z$.

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V), HERE IS

U= (310730280915 , -423191628)
V= (-9791034210220052 , -35330939076096)

.....

X= 39

X= 39 D= 53251

A= (-195762089244178671507 , 984015735775100280)
B= (169573783561263092644008691294 , -7159566368677072169393637640)

J-INYARIANI

J= (-1152370303094717789300516838248995561154389657979/102789156213103914630600865246289000000000 , 1370695472641598835242669122
4407987273962722793313/280614341861773686941540362122568970000000000)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS $Z \text{ MOD } 11 Z$.

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V), HERE IS

U= (5511121343 , -27848940)
V= (-20707702928640 , -279833823360)

.....

.....

X= 107/2 D= 2267158

A= (-40345025827751597820991707 , 20285170557801782218456)
B= (144820159156534248526629581916292574006 , -96891345395770074892103248625708296)

J-INVARJANI

J= (-623728872847418999104501013639430965805910552901396594386267/11661783400816126727296236755751953001653511708966912 , 193112
2373914182188576903736964294064786463700939066606739181/543546594885319013859451895819619392784466857945805947904)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 33 Z.

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V). HERE IS

U= (2833754291155 , -1576061388)
V= (-73909667139488512 , -179392396018176)

.....

X= 54

X= 54 D= 36454

A= (-2697752106787506467 , 34862547414050300)
B= (2497299640818113876241160026 , -15176873116868798877445100)

J-INVARJANT

J= (-30811495753638382726173109335355367120783/5508253813195008723449707031250000 , 436213536284875407232409187948249075804601/14
872285293626523553314269984375000000)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 11 Z.

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V). HERE IS

U= (740545917 , -3191850)
V= (-298457265800 , -5759562800)

.....

0-1

.....

X= -94 D= -216478
A= (-4000137777010041392027 , 6960705011040910020)
B= (77357694010145054035763562700466 , -263105791133005045646637212740)

J-INVARIANT
.....

J= (973500771152941100242390091204100559531923479645507/14096224025040070116720321127523292641039920 , -1550412316757213325421300
0046103345323094126755792061/259700031437352901030602300453409143610510633472)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 11 Z.

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V). HERE IS

U= (39264155745 , -29309154)
V= (9916136391160 , -103293007400)

.....

0-2

.....

X= -175/2 O= -10034042

A= (-25034004741769906704150104507 , 64721:750772970001716056)
B= (1205301670751972112637473600653510776007206 , -615053976005053644020455371036012659976)

J-INVAR|ANT

J= (394509029102259720533022302034413522077170163905535546020159090133223/0703045612512660766063121593721501055597252069694694444
690752 , -713035235040354000706994140260090541044900700077663747297591201400619/1100193002659475706270930105036005550417267116430
999096393352005504)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS $Z \times MO 11 Z$.

A GENERATOR OF THE TORSION GROUP IS THE POINT $Q=(U,V)$ HERE IS

J= (99154363510915 , -10762503620)
U= (1506020420546476032 , -2241205079067904)

.....

.....

X= -70 D= -51707

A= (-2104074539725051061007267 , 2603500600315035540344)
B= (912975320299427355378772430735609154 , -2202115305103693026434357020291076)

J: INVARIANT

.....

J= (260030409093695263540645439104174524402070336724306403017057/0272745070944066967102000611392110223921095717500 , -265951009073212150659232214694431717741040720033590206774553/12160277096527249420657667792177962303005012492403546112)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 11 2.

A GENERATOR OF THE TORSION GROUP IS THE POINT B=(U,V). HERE IS

U= (915204925015 , -440122900)
V= (1009085959219456 , -111172752034600)

.....

0-8

.....

X= -143/2 D= -6175342

A= (-2795544707469017316508061707 , 1007207075010625342090456)
B= (40492090901500920030541777892172275452006 , -31651684590001913604634962065076172296)

J-INVARIANT
.....

J= (138514435530102149077322332051461167531646155641456199076073191733/0310040957672236746040489411074955694405298335411450342912
-352064721216774753766333695942162834196741472497009065447190094956977903664243156730755286775001547026805640404150709974527995
3947904)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 11 Z.

A GENERATOR OF THE TORSION GROUP IS THE POINT B=(U,V). HERE IS

U= (32006596074155 , -5027573384)
V= (513253770341024512 , -072000561005024)

.....

.....

X= -64 D= -103

A= (-179554057237605592 , 16505920040130400)
B= (20040004029231570905790316 , -4107339759105090576476408)

J-INvariant

.....

J= (48916910144634070513983600311326053067/5265070091640062050504496611320 , -1040793105706070200726755070612660760733/1832319930526314479913223070201216)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 11 Z.

A GENERATOR OF THE TORSION GROUP IS THE POINT G=(U,V). HERE IS

U= (264703750 , -10240654)
V= (15002700672 , -6256052992)

.....

a-6

.....

x = -113/2 o = -63050

A = (-102267390271024497274769707 , 715135640052138057501992)
B = (610053400933444608990692207522314427526 , -3768567334614788097585887666731072312)

J-INVARIANT
.....

J = (14724649183093443200867064371843569450904464801772693575114573/30775667702632739808607636260355584790127751571349000192 , -3
3960888143548488786746082773296340980519641291861292549518432633/10515010997916287861734057270677940076938420358020014703509504)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 11 Z.

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V). HERE IS

U = (8477102179995 , -13740193236)
V = (127637627333179592 , -190910981053908)

.....

.....

X = -49 O = -127237
A = (-8658967920265419161267 , 25176540729928055544)
B = (190299985434103156295302221271294 , -1402738969344620346038620350216)

J = {MYAR}ANT

J = (24237972634139207383713719103057189810481010729255077/1098377277199383410442543426497355788656111648 , -42317911172091730632
7513221629702326136110857194522103/5684393577735974338365704853027265964281402099712)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS $2 \times C_2 \times C_2$.

A GENERATOR OF THE TORSION GROUP IS THE POINT $S = (U, V)$. HERE IS

U = (59637373135 , -69184908)
V = (107704561095936 , -1035927069568)

.....

.....

X = -49 O = -127237

A = (-8658967920265419161267 , 25176540729928055514)
B = (190299985434103156295342221271294 , -3402738969344620546038620350216)

J-INvariant

J = (24237072634139207383713719103057189810481019729255077/109437727719938341044254126497355788656111648 , -423179311720917306327513221629702326136110857194322103/5684395377735974338385704853027265964281402099712)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS $2 \times C_2 \times C_2$.

A GENERATOR OF THE TORSION GROUP IS THE POINT $G = (U, V)$. HERE IS

U = (5963737335 , -69184908)
V = (107704561095956 , -1055927069568)

.....

.....

K = -85/2 D = -1253542

A = (-5303097621928453112500507 , 5214174612123640035256)
B = (2483504503920996380335303702930213846 , -7223153481545616397605380767164936)

J-INVARIANT

.....

J = (21129170690914524034946326746152526243186^041826445526370943/239758094916637896950557193360646629421001512887636992 , -893219
65464712267182789552874687127466048439098053C,061940469/72435715636214641426702359258118539686729861372:281802308)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 11 Z.

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V). HERE IS

U = (1458285703135 , -573189708)
V = (20776229352732672 , -59701808484864)

.....

.....

X = -55/2 O = -542442

A = (-547445536525731145206107 , 73262024724607165654)
B = (1149512827768274329575534402490966 , -8289687436072831299631148981256)

J-INVARIANT

J = (430740237181017403609685535559149177129917030856224983/74090641602914465566976047334720568096921692114672 , -59558518598511902
467314007098675507752968297611630474419/10099716332088986612574458973260380022421852672098304)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 11 Z.

A GENERATOR OF THE TORSION GROUP IS THE POINT O=(U,V). HERE IS

U = (117076211475 , -96440268)
V = (1517056953956352 , -6653758569984)

.....

.....

s= -19 D= -8287

A= (-228768885703536467 , 3196917145082744)
B= (17502365984260815745216254 , -935127555448775736376456)

J-INVARIANT

.....

J= (3585585790945836634427994219681418192497/417637990514793445207442134020492288 , -2423392479734967900581568195035476074948653
7365046800370992947111504425155910259712)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MID 11 2.

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V). HERE IS

U= (283635855 , -1629228)
V= (433076137216 , -10358955648)

.....

.....

X = -23/2 D = -52542

A = (-5283824926410510507 , 32711479013788056)

B = (1912525242877914632695418884 , -47904422243165360592301576)

J-INVARIANT

J = (-160020601647733099871261297475945110903393577/86895197040901227702988026527262193713152 , -11516934361067230621632632582349277109267075369/247425102017690301408921051655731776469909504)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS $2 \times \text{MOD } 11 \mathbb{Z}$.

A GENERATOR OF THE TORSION GROUP IS THE POINT Q = (U,V). HERE IS

U = (1104921115 , -3468428)

V = (12951811602432 , -119924101504)

.....

.....

K= -4 D= -7

A= (-2187 , -864)
B= (170694 , -87264)

J-INVARIANT
.....

J= (2994657/68608 , 4432109/137216)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS $Z \times Z$.

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V). HERE IS

U= (15 , -12)
V= (324 , -108)

.....

.....

X= 8 D= 17
A= (-1209816 , -271080)
B= (730282176 , 160165156)

J-INvariant

J= (-1078570719/44032 , -522287779/88064)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 31 Z.

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V). HERE IS

U= (-498 , -174)
V= (-20736 , -6912)

.....

0-15

.....

X= 31/2 D= 44462
A= (-9931346056314552811 , 18492604399491480)
B= (16536716191104941485495494726 , -15145579065951367626439944)

J-INVARIANT

J= (-435607256371872563141202878255552070161801/420400777591980456755551098124992135168 , 57202664672975903021290452675216954596
18728971198983017692528262646774520732477569499136)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS $Z \text{ MOD } 11 \times 2$.

A GENERATOR OF THE TORSION GROUP IS THE POINT $Q=(U,V)$. HERE IS

U= (-566673413 , -11094924)
V= (-31712617691136 , -293635188992)

MU-P-VALUES

P	MU-P	TYPE OF DECOMPOSITION
11	1/3	A

.....

.....

X= 49/2 D= 197138

A= (-240004543961104321803 , 6154529641921856792)
B= (02337319002024011279121614349670 , -142895196956861794368553696776)

J-INVARIANT

J= (-1106770074449480400021919456041554673715943466573369/1067459372693230433667935435245908182133245056 , 2140156826169180039520
21402113523759396168313750109279745378103518978871762535529157636118151606685270016)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 NEO 11 2.

A GENERATOR OF THE TORSION GROUP IS THE POINT O=(U,V). HERE IS

U= (9612729003 , -69522060)
V= (-588131454597120 , -3247396969881)

.....

X= 25

D= 13141

A= (-780217936918305491 , 7561305758462904)
B= (457406537117618761942710222 , -3131727253525485658495360)

J-INVARIANT

J= (-2037580161607190249614551909151795541007859/1671433372845196966310359375000000000 , 148491495704152006389239527413542575738
374671755005041487456814634277343750000000000)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 NEO 11 2.

A GENERATOR OF THE TORSION GROUP IS THE POINT O=(U,V). HERE IS

U= (100326919 , -4710656)
V= (-130810000000 , -2835000000)

.....

.....

X= 79/2 D= 806470

A= (-939358652664559289244203 , 1154248109038955635272)
B= (541648201569499148262036482660083550 , -502029638801229251498198309891336)

J= INVARIANT

J= (-1791202526467512949694551342241110593083561166167810424369/1493820854566670672887290349890177591239110012993536 , 42724591629471344299211831200243951097763818424019017278849/33513564688570623216899246290136024437040672251522973696)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 11 Z.

A GENERATOR OF THE TORSION GROUP IS THE POINT O=(U,V). HERE IS

U= (371305759643 , -468853340)
V= (-11668818090547200 , -30229660301824)

.....

X= 40 D= 3601

A= (-255694344640836 , 4916465365736)
B= (2513874551030620696768 , -41032547140362994568)

J= INVARIANT

J= (-2073983727358576751276592530159/1629504019902190000000000 , 3113796470898173020931432051029/14629536179119730000000000)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 11 Z.

A GENERATOR OF THE TORSION GROUP IS THE POINT O=(U,V). HERE IS

U= (6180366 , -120366)
V= (-738720000 , -38880000)

.....

.....

X= -107/2 D= -13637654

A= (-64301972178577932249061309947 , 13870143273555571762145840)
B= (4033132176309230475551968152000754513652446 , -2079087965240199857430710467683065969160)

J-INVARJANT

J= (3491618324800956213033326161447549753629644197953130318002699212973709/5196941236294287356033962449092504277089729637834560000
000000 , -61703307674797296665012977926330311152899061640656913475872502363867581/833828453598473229126225209831692741241938761472
003813760000000000)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 11 2.

A GENERATOR OF THE TORSION GROUP IS THE POINT O=(U,V). HERE IS

U= (155904660864307 , -14689722060)
V= (2518419777220638320 , -3296360964948480)

MU-P-VALUES

P	MU-P	TYPE OF DECOMPOSITION
3	1	0

.....

.....

x= -157/2 0= -8133914

A= (-8306704644980575513647201147 , 250573800065250636343960)
B= (213636061207989046026546177304616510844086 , -135468460389050544142498151438264595720)

J-INVARIANT

.....

J= (21089934395217390220784290687119602515503733390152285464002203660697773661815001982623165507939877704913877278070400000000
00 , -478410423917445792123850231738793503020020740674432650322387882738971781605752099753393142903092600514808174215600002059328
00000000000)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 11 2.

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V). WHERE IS

U= (56462010581667 , -7502297420)
V= (892187508348106240 , -138580168352960)

MU-P-VALUES

.....

P	MU-P	TYPE OF DECOMPOSITION
3	1	D

.....

.....

x= -71 D= -37059

A= (-628968377841437965400707 , 918573226254986153400)
B= (156335864141337387004800806959644494 , -433049280595669570177280077304200)

J-JMYARIANI

J= (1136670678211953614637431875054709191644515798113506416161/207128796039570187530733667384755859375000000000 , -11473176040
078250168971497909488421285022177069107631993417/76755921677821422497202313557647649902343750000000000)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS $Z \text{ MOD } 11 \times Z$.

A GENERATOR OF THE TORSION GROUP IS THE POINT $Q=(U,V)$. HERE IS

U= (493433157063 , -30334700)
V= (961659326419200 , -6586707713200)

MU-P-VALUES

p	MU-p	TYPE OF DECOMPOSITION
3	1	0

.....

.....

X= -127/2 D= -4354574

A= (-704127461951094593707062347 , 317341662656851475567640)
B= (4912414016247951995550046647200158760486 , -5017978992186588581471415806811609400)

J-[MYAR]ANI

J= (40207010840006723354954274339403227111311304457409429335841412519/540941443711789497721998253926397647711117647040000000000
-127327759741810512996742083643264251208013103697908485659582798161/370977642097545237321746402542460666800284482340012000000
0000)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 11 Z.

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V). HERE IS

U= (16346563721347 , -5129514380)
V= (254397983445596160 , -485492334819840)

MU-P-VALUES

P	MU-P	TYPE OF DECOMPOSITION
3	1	0

.....

#####

X = -97/2 D = -1975654

A = (-31458014555519269175917547 , 23352408810930841792920)
B = (41628991803351073522393093442474406086 , -78532597246012644104801313180658110)

J-[MYAR]ANT

J = (19552608009790291040210624177664372707006613292055805083060079/9232468368426967840077741058421961645332503360000000000 , -682724686547014654230569338714733559447482498327959685412783151/3761307702925146494047671707201107190604618668640000000000)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 11 Z.

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V). WHERE IS

U = (3539462412027 , -1067180940)
V = (51914816870676680 , -128502021957120)

MU-P-VALUES

P	MU-P	TYPE OF DECOMPOSITION
3	1	0

#####

.....

X = -67/2 D = -673094

A = (-471454725534677261030747 , 673854835667594435800)
B = (64126483420437517852056079475764836 , -279684773829039004750957602990400)

J-INVARIANT
.....

J = (422417081941810921021972420362524551286580017570267961459/16649710066311610571711546568809593750000000000000000 , -24025155194
681284580599107396179454261910577534744805411941/335463172332863364471402086611072834315000000000000000)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS $Z \times \text{MOD } 11 Z$.

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V). WHERE IS

U = (454990461107 , -244385100)
V = (5955321759795200 , -20892602252800)

MU-P-VALUES
.....

P	MU-P	TYPE OF DECOMPOSITION
5	1	D

.....

.....

X= -26 D= -5066

A= (-1679096701940067 , 29199941895420)
B= (12110403151372044145628 , -726552842116225180140)

J-INVARIANT

J= (105678779064917335260634055903820197/2198231443429787500477031250000 , -5114677213705789887507601002092712759/1714620323875254230372084375000000)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS $Z \text{ MOD } 11 Z$.

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V). WHERE IS

U= (25708937 , -174690)
V= (5182107840 , -185075280)

MU-P-VALUES

P	MU-P	TYPE OF DECOMPOSITION
3	1	0

.....

X = 37/2 D = -122954
 A = (-708614166408761905947 , 2557317070015352240)
 B = (298232365428442460125629780986 , -41563901931907451806791453960)

J-INVARIANT

J = (-404284972149196600055667141523206268609614091401/248715470076508095 , 65529822852100146000000000 , -2367015224865751200813089
 600314755859218010763402531/1656445030709543918284762862019498706560000000000)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS $Z \text{ MOD } 11 \times Z$.

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V). HERE IS

U = (16005356787 , -23494860)
 V = (191204004280320 , -1163878074880)

MU-P-VALUES

P	MU-P	TYPE OF DECOMPOSITION
3	1	0

.....

.....

X= -7/2 O= -1214
A= (-7673830287147 , -2367504161640)
B= (846153314009988354046 , -20028806965594496520)

J-INvariant

J= (-849641380342722897565762622506441/769765565142054450144000000000 , 5775781336665753199811141416527079/523301337359662869060480000000000)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 11 Z.

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V). HERE IS

U= (2267067 , -158220)
V= (21906339810 , -497871360)

MU-P-VALUES

P	MU-P	TYPE OF DECOMPOSITION
3	1	0

.....

.....

X= 17/2 Q= 5458
A= (-10204615236314507 , -110165288976744)
B= (553539190280260510616216 , 6497718169781899100664)

J-INvariant

J= (-6748149870972890889079976906009771257/478187563742285054071871947374592 , -55234868498990917815435081903095511969/2926506543702784813141585631793250304)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 33 Z.

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V), WHERE IS

U= (-45375765 , -928908)
V= (-540350134272 , -10391348736)

MJ-P-VALUES

P	MJ-P	TYPE OF DECOMPOSITION
3	1	0

.....

X= 16 D= 193
 A= (-3234975192 , 111876376)
 B= (105315216106176 , -1921240472256)

J-INVARIANT

J= (-1219346649441984033/99501204307968 , 1034156062957357459/1194014451695616)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 11 Z.

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V). HERE IS

U= (-5370 , -3078)
 V= (-2322452 , -331776)

MU-P-VALUES

P	MU-P	TYPE OF DECOMPOSITION
3	1	0

.....

X= 51/2 D= 223942

A= (-4085992255278023460413 , 9687409393887832760)
B= (175288201757655570015522528330446 , -29251702067373578553462393704)

J-INVARIANT
.....

J= (-4055691289564497943183057119093973267205581234687961/20819012128187807717140297295696145714327748608 , 751931471857897606047
61482489647679551514708378861109/261572374388663449294754687877846590206003010789376)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 7 MOD 11 Z.

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V). HERE IS

U= (13709858307 , -81579084)
V= (-756032968636416 , -4021451960832)

.....

X= 26

X= 26 D= 3722

A= (-508653799976827 , 5749216384428)
B= (3617856025581531507826 , -48081860367413476428)

J-INVARIANT
.....

J= (-72404854935152159348715450935979/48283444459010070634569604 , 29876915993076918995584271544381036/121519771014436544335705
7795472)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 11 Z.

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V). HERE IS

U= (3949665 , -172194)
V= (-3257524928 , -135721872)

.....

.....

X= 81/2 D= 958162

A= (-1281404660803033662044811 , 1506277957726120614480)
B= (888783829665981069896977740107857126 , -891498498960061107729588570062344)

J-INVARIANT

J= (-3660187312419761650905889902001970168037627116964637147001/2698085753226142150757465575417068299795329755446528 , 8655114268
5130360244559752429382418743125587549486268245197438151242353047141497155757897644994267516365302781280256)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 11 2.

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V). HERE IS

U= (441245697387 , -518109324)
V= (-13379730835902336 , -43440684599592)

.....

X= 41 D= 62213

A= (-364533274314541974467 , 1675934717365161144)
B= (4246448061322600913584823394574 , -16753738540298241984982508936)

J-INVARIANT

J= (-4855785578679693115172012512992919595830090122463/3353834954703334466131701317603324554451968 , 5885674596534572552619369195
6282087749743934937287/101755352525699167702435817976084846498207270932)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 11 2.

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V). HERE IS

U= (7501141095 , -34009068)
V= (-28184185426176 , -361335710592)

.....

.....

x= 66 D= 1378
A= (-32657937059403888027 , 837389129559355396)
B= (96674502747585520158029194546 , -2598415118220400139537616916)

J-INvariant
.....

J= (-1830024594381256128865524155444824781579877, 1216981886251802375566915247510880472 , 443881496754550153997662495139760642206
89552827/109557577327952311072435978243719983611328)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 x D 11 2.

A GENERATOR OF THE TORSION GROUP IS THE POINT G=(U,V). HERE IS

U= (2718995505 , -49878318)
V= (-1016438658048 , -11172978224)

MU-P-VALUES
.....

P	MU-P	TYPE OF DECOMPOSITION
5	3	D

.....


```

#####
P= 01          D= 505215
A= ( -1625742368591075395602467 , 2025851281744740946744 )
Q= ( 1047743027148195603992712412055697454 , -1430651962875600366766639124037256 )

```

J-INVARIANT

```

J= ( 2519245815141350178416043371739572842937726396555396666273624272880849768501511035967726577987418030420992 , 44863571014240
744125401822869521030822550447064478861932153771328479072920107723543522115634671993110197385996283 )

```

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z M00 L1 Z.

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V), WHERE IS

```

U= ( 612659999255 , -517067628 )
V= ( -1803929584962816 , -31455249010752 )

```

MU-P-VALUES

P	MU-P	TYPE OF DECOMPOSITION
3	1	D

```

#####

```

#####

X= 177/2 D= 10589459
A= (-19708695577330897754027690507 , 5142259783730916167884056)
B= (1369965138118616417476484053277849714947686 , -401865699271746454411263002670087290376)

J-[MYAR]ANI

J= (-53430127290739297792744621120620015862047432381730235166746952014023/8373870524638660550136:51908922091905935729931466786131
47848 , 19720:4266971620459793138801127347076768721245952309666409481190318369/1001950554014065012144896591502346:4072902:65775986
389420342378496)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 11 Z.

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V). HERE IS

U= (7:652829180715 , -11787954828)
V= (-1586790492444997632 , -2293049844573696)

MJ-P-VALUES

P	MJ-P	TYPE OF DECOMPOSITION
3	1	0

#####

X= 96 D= 52993

A= (-12419521292182027992 , 44558165843817176)
B= (21277206860589737572812865216 , -86707356455954557188181656)

J-INvariant

J= (-61709555922917372465000677114945989037550776475133844167734642876336738926592 , 14681279126580417875975854352719663213736417357427380198058963326737879887478784)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 11 Z.

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V). HERE IS

U= (1820292910 , -3984198)
V= (-154936737792 , -3296526336)

MU-P-VALUES

P	MU-P	TYPE OF DECOMPOSITION
3	1	D

X= 113/2 D= 2681746
A= (-79261752202620881662151947 , 49971409185459229798600)
B= (391790365598866677277244916657307958886 , -240912969136994480181101739361418760)

J-INvariant

J= (-2443945456164586342590441297788911876408221232651234789948601/3493062382786022898158331247371791611300180160000000000 , 708336969797030638662103184306171774743797461729480810987087519/1657807406870246467459559418026522987230655039360000000000)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 11 Z.
A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V). HERE IS
U= (4077376214187 , -1960107460)
V= (-103186596371281920 , -256666505438720)

Z= 57

X= 57 D= 172213
A= (-21547560235427532370243 , 53490690434399438968)
B= (1755026518416935226782421652168270 , -4257659042654137975276345135496)

J-INvariant

J= (-27470149853134774385904792558500519612318307910526431/3756571787461127954722519823594217137530233504 , 3999741043666202212541424539163662986400971655639343/22715332739840135102432256374156259944957066631160)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 7 MOD 11 Z.
A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V). HERE IS
U= (67473195207 , -12697900)
V= (-212687375028480 , -1935521591168)

x= 133/2 D= 4422506

A= (-590203378105004023913898747 , 271255173897636466407000)
B= (7621241715874226858690093115761500480806 , -3613259146056861616841941510:72949000)

J-INvariants

J= (-1187437975227384281961840924100518155227312791128177340425149839/883998887107573451984709:213858032226562500000000000000
4388218:86775945976087180904070963902800253174666304759526496541/5911812:392654016356983156572:5591430664062300000000000000)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 11 Z.

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V). HERE IS

U= (11689035170107 , -3759991500)
V= (-278997302078208000 , -540692445688000)

x= 74 D= 95834
A= (-150897317691325923067 , 589873554650207020)
B= (774049616303603286674495480826 , -2461580911664667497652907310)

J-INVARIANT

J= (-6159617495927697420876498630916540492438979909/23317225815208988505376160765669156250 , 82528127710465252572575427330032197
1677559104097966265837782260500412836102046319687500000)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 11 Z.

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V). HERE IS

U= (5645454657 , -11257890)
V= (-2040286651040 , -28337314320)

X= 163/2 D= 8236646

A= (-7185483688264489538641935947 , 2207692692831574980667480)
B= (307125606327842405591780946702503882024886 , -103750459312201754411783684542914180360)

J-INvariant

.....

J= (-279276679606619677782450735017686646837052549189594052865838271976570279424401293621626972278849841625646453750400000000
9855279180946125552012537165512902198607435539763087081812753418117661992438650196853401621818500564995091068594815421000000000
0)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 11 2.

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V). HERE IS

U= (42627401869987 , -8479165260)
V= (-961995314065029120 , -1312371248529920)

MU-P-VALUES

.....

P	MU-P	TYPE OF DECOMPOSITION
11	1/3	R

x= 193/2 D= 33782386

A= (-56820184106734670076593235147 , 12872211539717203559937560)
B= (6580404281970768581954030634549046358690086 , -1660847523262290467800941695929358310320)

J-INVARIANT

J= (-903928384139758118030706040609116459639761464115870169243361990385959/9244850321222668459914970180750136035934948459465600
000000 , 3498936480993330743055041998353928083015*4291064313519613248*6646421521/1120349522877021506508656042214741578221*295*419
108769925000000000)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 11 Z.

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V), WHERE IS

U= (123235200504267 , -16661812620)
V= (-2682603188837744640 , -354843753277440)

x= 67 0= 202023

A= (-158008309923258419123043 , 206238400817946440248)
B= (35517201629210498076249681873368590 , -62416045878058587249148154147356)

J-[KYARJAH]
.....

J= (-1876775500429720045451874580117694322426535952024370469/115898379720931185995751504667233133108217302016 , 29758860300564309
002315753894649252755023767510030503347/978422563604101072176134202400782109655570463619372)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 11 Z.

A GENERATOR OF THE TORSION GROUP IS THE POINT G=(U,V). HERE IS

U= (191621944667 , -242143020)
V= (-570370225501440 , -4387463273000)

MU-P-VALUES
.....

P	MU-P	TYPE OF DECOMPOSITION
3	1	0

x= 149/2 D= 6260938

A= (-2305457899123587320425515805 , 876372517994452622210392)
B= (60115865250559095664026535759307095190070 , -25627908546644559704159256615996307976)

J-INVARIANT

J= (-143265712685717288277990922701907675053332229320615025579601849631/53196:164029084032715685494924947078544191659105078885734
4 , 488344084373472725018780585399201356608543284728920898997464105821/44703:883805481:031545534120365530229253994237263004164157
60584)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS $2 \text{ MOD } 11 \times 2$.

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V), WHERE IS

U= (24:34953024803 , -5921331660)
V= (-557218785201694720 , -960722388278784)

MU-P-VALUES

P	MU-P	TYPE OF DECOMPOSITION
5	I	D

.....

D-6

.....

T= 02 D= 133122

A= (-461551810901290547483 , 1120074769182662316)
B= (4994043569940213704504728484530 , -13356708002352288156522958668)

J-INVARIA
.....

J= (-902227170177671601260501622045963920379287331689/20595570108995942264778557662200137674376 , 31944132742285450335643385568334
4240036533301747109/263458552834276093451047053774864161130617792)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS $Z \times MD \times Z$.

A GENERATOR OF THE TORSION GROUP IS THE POINT $Q=(U,V)$, WHERE IS

U= (10916038013 , -16970850)
V= (-3808675706210 , -47608421328)

MJ-P-VALUES
.....

P	MJ-P	TYPE OF DECOMPOSITION
3	1	0

.....

n= 179/2 D= 10951278

A= (-22619180222759920762928006203 , 5269823718935630187542872)
B= (1679673739925019510276305081156518556895990 , -483248194094207671575259375029070390536)

J-INVARIANT

J= (-7739999552840889403470768712:852363811519429035179530387298075582631/114767436177258452620878297775393629:697561475351833736
740864 , 28743280001:135287505030897251514806730:523107370852340081219007954251/14051665815796813456369855266428294381028263679617
7135391604424704)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 11 Z.

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V). HERE IS

Q= (76871:42301443 , -12329636940)
V= (-1692791187673056800 , -2426844553818624)

MJ-P-VALUES

P	MJ-P	TYPE OF DECOMPOSITION
5	1	0

X= 97 D= 875053

A= (-14776876229153454876207843 , 12840903435568002975288)
B= (27567547547360303460416002411741539950 , -27580886294049432925328462141669256)

S-INVARIANT

J= (-9951018218*2884154293027408606141326925961390105440508625969/5921101680051961808314070648901758435285817412862976 , 19314444
393543998147291617962865143599930493516602971424653417/178996516511497494945602462645681325683426717762873812992)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 11 2.

A GENERATOR OF THE TORSION GROUP IS THE POINT G=(U,V). HERE IS

U= (198824194167 , -1063107180)
V= (-5406263638053120 , -28454019147648)

MU-P-VALUES

P	MU-P	TYPE OF DECOMPOSITION
5	1	0

.....

X= 117/2 D= 2984458

A= (-121616235022652878449848507 , 7177232686167055591256)
B= (758662744735559730679466576039867198646 , -450097143269468104986360453457035736)

J-INVARIANT
.....

J= (-49073556086522144668128412208887903720445016863986507795653457/5910015783136099978507747216011321916051215417089032192 , 1445031423083105023313643277655964319966656171635228462987976531/301481725129338752103639241463169557152444605056545710178304)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 11 Z.

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V), WHERE IS

U= (5112885480035 , -2252500108)
V= (-127626866006095872 , -282360323022356)

.....

X= 59

X= 59 D= 191471

A= (-32978822768859390067107 , 76501548918273555640)
B= (3290498993867541632972444133381294 , -7561548869353828625169792269320)

J-INVARIANT
.....

J= (-4811470573944659203471487422095647484907231488209169/555677552423010006060480453535608471000000000 , 784999064627808069500153283615660856887765314066892375/3966932046747664922657659606749648744690000000000)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 11 Z.

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V), WHERE IS

U= (84425920503 , -145653420)
V= (-242572549592120 , -2503267978880)

.....

.....

X= 13572 D= 4629406

A= (-709209603653261323900939051 316532228325649871987736)
B= (9998752503107991386075942276654590151598 -4626345230160453376930977473012509128)

J-INVARIANT

J= (-2864714030888757500470160114440909865512625799631143511545105279/17054950600104496004602743830030176128185107936005590000
913332611030607405495732530287923425111634914366976422500759751971165627689195166390859656172412109492600519028650880005590000
)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 11 2.

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V). HERE IS

U= (12062249722411 -3491171596)
V= (-305565140171520000 -58313958040000)

MU-P-VALUES

P	MU-P	TYPE OF DECOMPOSITION
3	1	0

.....

X= 75 D= 399591

A= (-632249044852381401141891 , 916946551929449112504)
B= (258958442600702321005859943231509422 , -402595515263451747839458270300265)

J-INvariant

J= (-172374615773135518120205953637508883701852615457466844261/6107726623161479451232434024672949218750000000000 , 290781229913303413102754134104243860138052434822995298948376504728853646975615562542234276690917968750000000000)

THE ISOMORPHISM TYPE OF THE REDUCTION GROUP IS 2 MOD 11 2.

A GENERATOR OF THE TORSION GROUP IS THE POINT D=(U,V). HERE IS

U= (393478159719 , -78013336)
V= (-1133522100000000 , -776385000000)

MU-P-VALUES

P	MU-P	TYPE OF DECOMPOSITION
3	1	0

X= 165/2 D= 8548906

A= (-8339095317248506464993147771 , 2502315591895407379808856)
B= (383226292314299357631810125849113498286838 , -126790009234409630456243382660760682968)

J-INvariant

J= (-464075130912469038407752861014024695373116765241692049348529567309/102986928363118935131372264551647512582925085465600000000
00 , 81650759801249026243233648096190200357352625894736490918985618552349/1173865606968502246414407345812511682401976686357601920
000000000)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 31 2.

A GENERATOR OF THE TORSION GROUP IS THE POINT G=(U,V). HERE IS

U= (46038733935171 , -8902858956)
V= (-1035983704045520000 , -160867814080000)

MU-P-VALUES

P	MU-P	TYPE OF DECOMPOSITION
3	1	0

.....

.....

X= 90 O= 174154
A= (-144510241596#160506491 , 2912877227468116905)
B= (27041441484769366734730212305778 , -616#2639810024261721557311564)

J-INVARIANT

J= (-10080270201066683522625764810239567194962810134923/145410198845752293156189#29985153632812500 , 750971938837762297771018015
55899590015166337571441/4502117156264490936115624752540356471875000:00)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 7 MOD 11 2.

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V). HERE IS

U= (19435635681 , -24623778)
V= (-87032#2480000 , -76173210000)

MU-P-VALUES

P	MU-P	TYPE OF DECOMPOSITION
3	1	0

.....

.....

X= 195/2 D= 14221666

A= (-84452412025081070256680336891 , 11838835675755523260799576)
B= (7932546409235001828165945050095481601475078 , -1964514457504387625168795135699629612808)

J-INVARJANT

J= (-1147006565951501001331493008855116367760619255244290040908169843574297111491393583038939390692517874934242571299812818464000
0000000 , 49117979025215270452481148*516848075088037159899942638977520468101551797178233481348322879604790196337616998835947697674
712749440000000000)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS $\mathbb{Z} \times \mathbb{Z} \text{ MOD } 11 \mathbb{Z}$.

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V). HERE IS

U= (:31441794012:31 , -17363037516)
V= (-2855664191:28520000 , -3737780554880000)

MJ-P-VALUES

P	MJ-P	TYPE OF DECOMPOSITION
3	1	0

.....

X= 119/2 D= 3143998

A= (-149901612292710310117329803 , 85609598060396351106712)
B= (1005459876244479118340408207119647747750 , -570261017350059495250290678580823816)

J-INvariant

J= (-535764812082634980570113153095011323087383237160144437520489/5935763357645058110119290251945389096123766329081856 , 1596489
223960437582045533115031763456399927254356478365894129/3136219927645343009206262814695066578282795317763369943616)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 11 2.

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V), HERE IS

U= (5707166709963 , -2410407180)
V= (-141347357974558240 , -307712082553544)

X= 60

D= 12601

A= (-2418532680677931 , 21743423368256)
B= (65038895935581097919142 , -582137006305566825792)

J-INvariant

J= (-58642168334993944893243054140880319/623477271034175179000000000 , 109705139143463603565401709573127469/130930272692767678759
0000000000)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 7 MOD 11 7.

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V), HERE IS

U= (22983999 , -152124)
V= (-1109902500 , -38272500)

X= 68 D= 18497

A= (-11501560320359451 , 79541249985200)
B= (634782246707148215463574 , -4642921021551970925216)

J-INvariant

J= (-3254655760400015543076999907444001291/185700029997889627025730088448 , 6471032920977045581543771218332718719/50510625259425978768400760057856)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 11; Z.

A GENERATOR OF THE TORSION GROUP IS THE POINT P=(U,V). HERE IS

U= (51439443 , -250896)
V= (-2301350752 , -72162144)

.....

x= 151/2 D= 6521342

A= (-2809849198913573997075462411 , 1005395489907837195899160)
B= (7659443324507065594097097656730187733286 , -29140376190579590690750295092254666504)

J-INVARJANT

J= (-21369477051153506001851210169682666537403134686724892171543314749/732798108577100693079058270988988249564565:24097016758272
, 79591902385162670508436509271324879387191660783214650899045:3107191/69622562057423475:608868630705460624005296907883582845900:6;
024)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 11 Z.

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V). WHERE IS

U= (26267778368307 , -6245551884)
V= (-604303177528866816 , -1027726492394032)

.....

.....

X= 85 D= 544247
A= (-2192434861505151017385891 , 2600088497064443629180)
B= (165134699782240914611446858132570574 , -2136934248620994194437687150706184)

J-INVARIANT
.....

J= (-58425521113077063418659652737965189829378238131940174925817125636094934170033315915336401691283426862328122368 , 1041325517255210297701671776398324103698653465461628636470771647591748566705016903602322620938832859872570936733952)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS $Z \times Z \times Z$.

A GENERATOR OF THE TORSION GROUP IS THE POINT $Q=(U,V)$. HERE IS

U= (747307738023 , -570035214)
V= (-2099076222493048 , -12957260632704)

.....

X= 161/2 D= 251338

A= (-25901906642552016431275650811 , 45258548572604562269427560)
B= (2051704132288566579127024010548147751711926 , -1059235507329762910655593557220518910003)

J-INvariant

J= (-111558850243466657889699598416678543070128932835364711564674147219159/136569517045114065187277923462242318367408139568614475
7891072 , 28171942158125084077565943993136357406287358083347614044713526906991867/196106476539746269304125544694927786177146042972
481003215372550144)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 11 Z.

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V). HERE IS

U= (82425552453987 , -90228446868)
V= (-1017303175372404736 , -17967686742156544)

x= 98 D= 225698
A= (-4089535662139004674971 , 6963193326127039020)
B= (12664813711296785220361179:486386 , -248906597021951921025591842892)

J-INVARIANT

J= (-2667281956574349982723108790489831923083705337331725280367995218279306618368552933556524168 , 104131623881076094123537856387
294834399003456446789/465765199944454297985136822219247842249271232)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 11 2.

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V). HERE IS

U= (33132917937 , -34612362)
V= (-11236657872384 , -117048519501)

MU-P-VALUES

P	MU-P	TYPE OF DECOMPOSITION
11	1/3	R

X= 121/2 D= 3309122

A= (-184110289227441598409997611 , 101794841016854766681240)
B= (1562849957891883416461528431073084834246 , -7524087354386605846550591146473299464)

J-INVARIANT

J= (-7217697392542623402302083363778487738309407828382510276290811/736657742473503321409698790617974304263122920586756608 , 238703709450806985554576181551676338546030301983282890056911959/445182357764969280199931708863573597136345906379717416452096)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS $2 \text{ MOD } 11 \mathbb{Z}$.

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V). HERE IS

U= (6357623228627 , -257646444)
V= (-156711007598202496 , -334852580316672)

X= 61

X= 61 D= 1753

A= (-49749810214092166158867 , 1191063509218396857584)
B= (60397006235126245387995572407614 , -144804456717003252602730171076056)

J-INVARIANT

J= (-38343942370747159157135462492017767738842882145235985/7678470528457146281175587259029749820813360128 , 13012153696860228788272833204726495507799803541602846017/53396084057672555260157033799293220999936104330112)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS $2 \text{ MOD } 11 \mathbb{Z}$.

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V). HERE IS

U= (104768807375 , -1830566628)
V= (-521847349412096 , -50002719012592)

X= 137/2 D= 4842658

A= (-849869038819108953475289707 , 36819749196724239288856)
B= (33065051087530826964514778490154407643526 , -5921215979693876489550197553603460616)

J-INVARIANT

J= (-55212062011450553685216578475575;8954884793623303192602501297303/3057398519516911013469167301;4979937595918725993360283188
17742112847954499522597652346769812557863281491230557350687821576972161336261416949166181623609265576174053068657792262589553049
)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 11 Z.

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V). WHERE IS

U= (14131635451995 , -4232852748)
V= (-534208580858563392 , -628211242169956)

M_Q-P-VALUES

P	M _Q -P	TYPE OF DECOMPOSITION
5	1	D

.....

n = 76 D = 25995
A = (-44840482793649187 , 250550920198936)
B = (4793521670593658449399851 , -29155071853454818381224)

J-INVARIENT

J = (-1986974067093911131005419043325142937/65956893858006771419455091712 , 8259877851972224475019588173745925971/22557257555798315825453641165304)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 7 MSD 11 Z.

A GENERATOR OF THE TORSION GROUP IS THE POINT G=(U,V). HERE IS

U = (10190435 , -391392)
V = (-1646864444 , -126672012)

MJ-P-VALUES

P	MJ-P	TYPE OF DECOMPOSITION
3	1	D
11	1/3	R

.....

```

*****
>= 167/2      D= 0060958
A= ( -9666243733403818295339010507 , 2831854019687523362973256 )
B= ( 476903180062024265917650518074270011519346 , -154582514629403651790383069589113500936 )

```

J-INVARIANT

```

-----
J= ( -768275583935563968831001251985000138371196861044431307046609002943/160380890973350911600722448859014608439252599673476941
9008 , 274705862337196097495680359060902796670951787825795152678257063231719717035139719206153640258562874246924011913498971165195
453771677696 )

```

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 11 Z.

A GENERATOR OF THE TORSION GROUP IS THE POINT G=(U,V). HERE IS

```

U= ( 49674091635435 , -9342237708 )
V= ( -111466491041036672 , -1709408758299136 )

```

MJ-P-VALUES

```

-----

```

P	MJ-P	TYPE OF DECOMPOSITION
3	1	0

```

*****

```

.....

T= 91 D= 720463

A= (-6766940972582659863766467 , 6680514431870371433144)
B= (8661768493962983414336040059125296174 , -9685414967776703464434778933859336)

J-INVARIANT

J= (-124464074750761205784926209282320795140599642412740257783237/1700296202039573728045535411844577319780906404293632 , 23322140
61040255112313945174209323167279165902747613695567003/26922490063075609609869840911147037241410872005583369088)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS $2 \times 2 \times 11 \times 2$.

A GENERATOR OF THE TORSION GROUP IS THE POINT $Q=(U,V)$. HERE IS

U= (1333706177285 , -823556268)
V= (-3570105579934976 , -20616570675792)

MU-P-VALUES

P	MU-P	TYPE OF DECOMPOSITION
3	1	D

.....

X= 197/2 D= 14670058

A= (-73014347656723468013209306107 , 13382666881374426813485656)
B= (95441710477094420649139913776488208788696 , -2525860325885175674128813497229555317256)

J-INVARIANT

J= (-1754041819850840502052366646299887960529483919394031438677496961651983/1621245663337557837438734968359500646594011891530:09
171171328 , 6867206597121632463151965489168029751439144475400410539203359692840669/2414553591321861852054256763077171562543153796
62916221908088221696)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 11 Z.

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V), WHERE IS

U= (140098166393475 , -18016168208)
V= (-3037929801786980352 , -3935142230214016)

MU-P-VALUES

P	MU-P	TYPE OF DECOMPOSITION
5	1	D

H- J

.....

X= 123/2 D= 3479926

A= (-225350176186349581230472347 , 120682006354269158471640)
B= (1837062275245820959936287863831042110486 , -988051534012791880871925471696137480)

J-INVARIANT

J= (-85172002617159098869390096314719690029673170073752288951569481/801881023726694752334210978087865055158156701055000000 - 238
3 970490311196395989596183638702451762085342529178349343858974537059727033634412441245714021140482014850631232000000000)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 11 Z.

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V). HERE IS

U= (7068418010547 , -2750962180)
V= (-173204417364532160 , -363874026396160)

MJ-P-VALUES

P	MJ-P	TYPE OF DECOMPOSITION
3	1	0

.....

.....

N= 69 D= 309481
A= (-226906676620255760161907 , 387944225854924604920)
B= (5688686360086114076840883767686494 , -101558311996873599882514640245960)

J-INVARIANT

J= (-7009629993848391255904917961579772604303851590724806001/3745042436448944772545742185028109341000000000 , 11306556986451164
6353468470794272330611671592805661870997/335932100549470319609735307399702140788770000000000)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS $Z \times Z \times Z$.

A GENERATOR OF THE TORSION GROUP IS THE POINT $Q=(U,V)$. HERE IS

U= (231317409183 , -272358060)
V= (-692320236232960 , -3091942061440)

MJ-P-VALUES

P	MJ-P	TYPE OF DECOMPOSITION
3	1	0

.....

.....

X= 153/2 D= 6700866

A= (-3502489407306553229175077547 , 1151263099035607527776920)
B= (97276250248386904669360022011045675766026 , -36573342404030569765766049120123346440)

J- INVARIAHT

J= (-375760316679405209040275507332190931561985735896480603807546393079/12076709131275375528400779268614934697326761636640000000
OO 12813698764463294615523753417887769591364765910003762249071524961401/10716871683093768203902851522968893050407760294202356000
OOOOOOOO)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 11 Z.

A GENERATOR OF THE TORSION GROUP IS THE POINT G=(U,V). HERE IS

U= (28554978156027 , -6582908940)
V= (-654656940810772480 , -1098417518158000)

MU-P-VALUES

P	MU-P	TYPE OF DECOMPOSITION
3	1	0

.....

.....

x= 84 D= 35281

A= (-191540357881051427 , 701015447361960)
B= (29502962891556404174947854 , -151458012803132004505880)

J-INVARIANT

J= (-7587396192117154369880764877523971050691/15380393881480656863314000000000 , 1701114778086500642395780740353562393919764597
65431618758826001480000000000)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 1: 2.

A GENERATOR OF THE TORSION GROUP IS THE POINT P=(U,V). HERE IS

U= (196759743 , -583920)
V= (-861618680 , -210039480)

MU-P-VALUES

P	MU-P	TYPE OF DECOMPOSITION
3	1	0

.....

H-6

.....

X= 99 D= 931111
A= (-18963723234236097421646307 , 15820049483564914991160)
B= (59907408017962995367511982374681450894 , -38523548129004678252992405314683080)

J-INVARIANT
.....

J= (-17404364195272794518:465991541674382855179192347478695693071/1576187874284723991127847362360987661170890000000 , 37754953
097115349275247420245174534979696420611603008624770707/326129033068253482464262897746111956972868849900000000000)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 11 2.
A GENERATOR OF THE TORSION GROUP IS THE POINT G=(U,V). HERE IS

U= (2259391927623 , -1153505580)
V= (-6118427910862080 , -51538288200320)

MU-P-VALUES
.....

P	MU-P	TYPE OF DECOMPOSITION
3	1	0

.....

x= 62 D= 55742

A= (-14841703174954714083 , 62589606652292756)
B= (3098009154590349023012307770 , -131584365873104372318034828)

J-INVARIANT

J= (-54811711722022325277538604151450952101831797/3149386574686925189012113022174781328 , 53021673037475612061772567762303823504
C65701/11325194122574185496887558427710513655488)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 11 Z.

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V). HERE IS

U= (1818310893 , -5519730)
V= (-691192265280 , -11569871088)

.....

X = 139/2 D = 5062358

A = (-101570804085212864517082203 , 428015437113757668021632)
B = (17004864185335539121611521331150800806230 , -749995576776156374384340367630:499656)

J INVARIANT

J = (-10161337502903502258575643587994925813198148773460472051128614231/525929275229771506188108766732864703431277015288548418304
 , 329077595191884146078441585745557756224214213189981234681953025011/3816091269063563744367650955762217:391204926826447293:559014
 4)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS $Z \times MO \times Z$.

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V). HERE IS

U = (15505578002523 , -4485548300)
V = (-365054731412060:60 , -676027280392704)

.....

.....

X= 77 D= 432833

A= (-873395888943354038476243 , 1202254349790206980728)
B= (417694392739989319787:67964156573310 , -621324680897541669587204973757576)

J-INVARIANT
.....

J= (-40054789311566613417775613106632580940386835732643579378/1246673683061574294770:7899665988:369013925634176 , 753888976075036
6452:04427982579018659772582705697250337037/15416616099476940243986987508493424985495824449472512)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 11 Z.

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V), WHERE IS

U= (464987518287 , -422288310)
V= (-1330103561171200 , -8868690407808)

.....

.....

X= 169/2 D= 9196998

A= (-11284576903094418003455597803 , 319993777348214535855512)
B= (592926730488704230730349050134241406706950 , -187997509424006963484854721581492305416)

J-INvariant

J= (-114642923620337809195858097211674233656828116303093364269630305278312256923828370902575531864137249926486874977360337413223
30624 , 41258218096921733342857743302759508614207282506165117672934585744117245634561784564668871873299362372999257318243896859
7065175793664)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 11 Z.

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V). WHERE IS

U= (53545069282363 , -9797683580)
V= (-1198255048619671040 , -1815542499423744)

.....

X= 92 D= 46553

A= (-461057516142369723 , 17813798710377:2)
B= (1556754767261122787924555990 , -674439171375780591392304)

J-INVARIANT

J= (-140373837694025618079555534860:5960557779:18:70115491058306136423819590656 , 36384886161218575606995262596688:358597859:10:
1348628232334511955334979841591296)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS $Z \times M2D \times Z$.

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V). WHERE IS

U= (548585207 , -810100)
V= (-14960299860 , -332451108)

X= 199/2 D= 15127838

A= (-82607856849090912719985577803 , 17055641108342485232007192)
B= (11461610753044519282747530919042615304575270 , -2741680023336757752705577751589845773576)

J-INvariant

J= (-24289987930000415119332032434264495838912458245252528096530207235633631 / 21359396324500886950131581020526406904651500836376314
320748144 , 95632319661724431946801348062477644851480490094459787152191104628572871 / 3247397179591816848550203356109752800456626661
159309324069325635584)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 11 Z.

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V). HERE IS

U= (149223799180203 , -38831656460)
V= (-3229767881704683520 , -4140753694493184)

J-2

.....

X= 70 D= 80854
A= (-66119988892404316131 , 219775390704636028)
B= (281903929645196870797565687258 , -982986043547295449748168204)

J-INTEGRANT
.....

J= (-536346852293308790919355166183231568383771367/26695352302125110159206533346406250000 , 959027962318891066059623144201667522;
7569668231/135665780399399809829087402466436562500000)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS $Z \times MD 11 Z$.

A GENERATOR OF THE TORSION GROUP IS THE POINT S=(U,V). HERE IS

U= (3162315901 , -9025258)
V= (-2451717800000 , -21392910000)

MU-P-VALUES
.....

P	MU-P	TYPE OF DECOMPOSITION
3	1	D

.....

.....

c= 155/2 D= 7063606

A= (-5873218092088551822583138331 , 1315801917725767667155816)
B= (123155673532480275040346556557292415339158 , -4530268684073950054072214544750503688)

J-INVARIANT

.....

J= (-594071788559706665343121400528921353638584425022125384628728653559/17909674071775698580202027502496142688471141354400000000
00 , 2040077623988422950371215269502473193150942213162051404285748162313971632287683925563750371612768349488353122699821237214000
00000000)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 11 Z.

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V), WHERE U

U= (3100554283015 , -6933753096)
V= (-70845913214720000 , -1172945551680000)

M₂-P-VALUES

.....

P	M ₂ -P	TYPE OF DECOMPOSITION
3	1	0

.....

x = 05 0 = 585243
A = (-29553167076915:9874629171 , 3519977450051048869624)
Q = (2515144635015764504925206550887176862 , -3160683795509960852667283142121128)

J-INVARIANT

J = (-130106610349550563369863852850445336010668971705180572520817288195189660496237902893293:70785132062:000000000 , 2348700:34
10986547252196255690069274247515485652876809152775/342518222162503319533498406469616837284951:70000000000)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 11 Z.

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V). HERE IS

U = (86832807679 , -626972076)
V = (-2425730470565000 , -14632494160000)

MJ-P-VALUES

p	MJ-p	TYPE OF DECOMPOSITION
3	1	0

.....

x= 105/2 0= 12115906

A= (-33856026936125375159564587053 8087546709925051594934936)
B= (5254289546559947257960839671466353454809798 -829927046267468058580652923305544875528)

J-INvariant

J= (-18859426077025941610250724936207086237367546974776318078938699275997237678598084411042821307850953949213224517171616000000
000 71315720051791621430898097308415664202335525890404739297077192306897311311427772000958588734902504850267949251085582636800
00000000)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS $Z \times \text{MOD } 11 Z$.

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V). HERE IS

U= (9858142046033 -14067103396)
V= (-2075063660275920000 -2866126934080000)

HU-P-VALUES

P	HU-P	TYPE OF DECOMPOSITION
5	1	D
11	1/3	R

.....

.....

I= 100 D= 60001

A= (-1278036210180718251 , 4179732941591576)
B= (696753889355699719263411302 , -264328392826030190757552)

J-INVARIANT

J= (-23056892891214480364550577054950734760193211/1977970153975760000000000000000000 , 56894334277335960882958079378706944923155
1/11867820923842560000000000000000000000000000000000)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 33 Z.

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V). HERE IS

U= (587344539 , -1122664)
V= (-24806250000 , -506250000)

MU-P-VALUES

P	MU-P	TYPE OF DECOMPOSITION
3	1	0

.....

.....

x = 141/2 D = 5288602
A = (-1210767015234320252773984411 , 496045596715697483970520)
B = (22048613910309181491776037236328937797206 , -94980970073045085769:9997341135612424)

J-INVARIANT
.....

J = (-1494187570865024176864435104840283307:43580313322:947995659639:7:40784561215333145385065107752013446207325100725665792 , 48
762093754959041111115633765497070558637271:87506033615958141/53864501:505888770573624518865094032479880350455633642589504)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS $Z \text{ MOD } 11 \times Z$.

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V). HERE IS

Q = (16983955876917 , -4748976204)
W = (-598257703882555976 , -726711158381312)

MJ-P-VALUES
.....

p	MJ-p	TYPE OF DECOMPOSITION
3	1	0
11	1/3	2

.....

.....

x= 141/2 D= 5208602

A= (-1210762015238320252773984411 , 496045556715697483970520)
B= (22048613910109181491776057236528937797206 , -9498097007304500576919997541135612424)

J-INVARIANT
.....

J= (-14941875701045024176644495104848283307183580313322194799565963917182784561215383145385065307752013444247325100725665792 , 48
76209957549590411111565376549707035865727107306033615953141753864501150588077057362451886509409247988035045633642589504)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 33 Z.

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V). HERE IS

U= (16983955876947 , 4748976204)
V= (-598257703892359976 , -72671158301312)

MJ-P-VALUES
.....

p	MJ-P	TYPE OF DECOMPOSITION
3	1	0
11	2/3	2

.....

.....

X= 78 D= 112550

A= (-2498198466291588271 , 87039209591191740)
B= (2014112545011767685092202993466 , -5865419872212158004252619532)

J-INvariant

J= (-322704814006030059125787540007935615627670086687/9425257316850797085653730175979949054736 , 55602166744280905875776663317495
01058910818069139/54402585232062800778393350564212265828496192)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 11 2.

A GENERATOR OF THE TORSION GROUP IS THE POINT P=(U,V). HERE IS

U= (7884413997 , -15893222)
V= (-2820551111744 , -36878040944)

MU-P-VALUES

P	MU-P	TYPE OF DECOMPOSITION
3	1	D

.....

.....

X= 127/2 D= 3838958

A= (-334298146504825641028902507 , 268185405310773024860056)
B= (3284914660368925936910612962007769020486 , -2690900494697467;18901571663940743176)

J-INvariant
.....

J= (-8300208045271643055050050473476590816826026944003520327864623/667729663222087818995753940375975065595712452136552449 , 25624
5191877;92003867719382;021203190850243731032829;6517495119/4036559360110365285530104536347540713632703947518868586496)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS $Z \text{ MOD } 11 Z$.

A GENERATOR OF THE TORSION GROUP IS THE POINT $G=(U,V)$, WHERE IS

U= (8688769288315 , -326395228)
V= (-210532631252088832 , -427952502544896)

.....

.....

K= 71 D= 357763
A= (-322426004069277498549267 , 521075:036:2957844544)
B= (95640:03552181725966743354707027934 , -162805528300377800583697835303:76)

J-INVARIANT

.....
J= (-22231650076428564280533455586920173:7560181821:39:281:57:10338659742389593678734:12726670:87539280074836392 , 364:39505436085
4492957341735823825443594370603645061623057981717287890345942594764868:54016424878674399914:888)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 11 Z.

A GENERATOR OF THE TORSION GROUP IS THE POINT G=(U,V). HERE IS

G= (2776119526:5 , -305316583)
V= (-01200827:29856 , -5884:23558922)

.....

.....

x = 157/2 D = 7345658

A = (-4533135656632646212707DD7707 , 1501428553759674017482456)
B = (1554445848521555366965175963306430644093206 , -55957031974536862165289220731599615495)

J-INvariant
.....

J = (-929779454592835733243396003166439621857548915788781270351091074463/263144445356052792037815764644640755288983335228895453511;
68 , 321511002554970338421380718585744409275691064668018243345553885544069724622952040336371856562496729328324755922156702638203375
99492076)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 11 Z.

A GENERATOR OF THE TORSION GROUP IS THE POINT C=(U,V). HERE IS

U = (33624032189333 , -7290438988)
V = (-765896394969741312 , -1251464697662976)

.....

.....

X= 86 D= 151622
A= (-827058807012805213427 , 1827754467497439228)
B= (11053565313647001216528091983706 , -29223357217818162992231564260)

J-INVARIANT

J= (-8354282007119144947495598596113309758377286918929716163257038245002803159526146070511388464 , 162677570552795082515582149
25592210812055313349171130032889861037597678725158820923711258618128)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MID Z 2.

A GENERATOR OF THE TORSION GROUP IS THE POINT G=(U,V). HERE IS

U= (1462448525 , -20530914)
V= (-5034519478208 , -40553803312)

.....

.....

X= 187/2 D= 125:0150

A= (-1861390886901265128:790583707 , 4028577487606:04881232856)
B= (371:18344800564164022647625809125874:4376726 , -9839125826615425:397121160986:8:4007016)

J-INVAR:ANI

.....

J= (-294626600183864036160574703593483:1845013242274844932982684378899973:352:2721283333544469460445024764:80935817491073482192422
85008 , 1222800114153839082242719488807765250323685919354092227417184692554201975:8617184587490488862797769578:2982855915234055958
307866332:578496)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS $Z \times \text{MCD}(2, 2)$.

A GENERATOR OF THE TORSION GROUP IS THE POINT $G=(U,V)$. HERE IS

U= (103128193361395 , -14685126348)
V= (-221485:713462920192 , -3025890321670656)

.....

.....

x= 64 D= 1556:

A= (-85750205434582232 , 673588755784920)
B= (15481814510860277249406656 , -108826016812037555551080)

J-INvariant
.....

J= (+6686788151015116582820470066503457175174349920584335360000005000 , 129503641735505882329256800442525459712410459809402404864
0000000000)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 11 2.

A GENERATOR OF THE TORSION GROUP IS THE POINT Z=(U,V). HERE IS

U= (159445582 , -787590)
V= (-1316872680 , -424673280)

MU-P-VALUES
.....

P	MU-P	TYPE OF DECOMPOSITION
3	1	D

.....

.....

x= 145/2 D= 5521486
A= (-1439639856:62270884812623187 , 573652573462786107972760)
B= (28482800520009263442966:0:87455141502086 , -119872658004:42767496:0078432220077320)

J-[INVARIANT]

J= (-2848453396:53054374359346058922184430868194336577:7888581518669:0277172703:560:92766575:83:89:02300704336978446:00000000 ,
10303010489383427059:074226456422414912587555748004:3:067204151871720348560375:478593597842920593337562642779:2876392520000000 ,
00)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 22 Z.

A GENERATOR OF THE TORSION GROUP IS THE POINT G-CU,V. HERE IS

U= (185801495:7467 , -5024059020)
V= (-435896787873:33440 , -780583906250240)

MU-P-VALUES

p	MU-p	TYPE OF DECOMPOSITION
3	2	0

.....

.....

n = 79 D = 46091
A = (-1196383790177074923862707 , 1565177021362626754400)
B = (665440884907944224933489377413250498 , -94755877867666428550976745425800)

DISCRIMINANT

D = (-107947795202076841866167127154224010401070716606978504206172967016894582174066548521071027148437500000000 , 18727963492553198484341638492061522980966601474625261496745000502008058321684000568705615170898437500000000)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 11 Z.

A GENERATOR OF THE TORSION GROUP IS THE POINT (X,Y), WHERE IS

X = (544983021263 , -467801300)
Y = (-1554162593260100 , -10095860993200)

MU-P-PLACES

p	MU-p	TYPE OF DECOMPOSITION
3	1	0

.....

.....

X= 175/2 D= 3876026

A= 1 -1889654966003:600042438104347 , 4067914763844553051732440 ;
B= 1 804918422823141007:72286255179656583190486 , -274106249609586429400806960255057605080 ;

J-INvariant

J= 1 -22767116594387:500928397839682756641067682989:40986212:922807940929/3983870241609415566771825723628:887224557794375860000000
000 , 922852:67206244546295424806145:7747042433015350926647241:75195779061:501422:14605659176355407767235745328848489025795646528
0000000000 ;

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS $Z \times Z$.

A GENERATOR OF THE TORSION GROUP IS THE POINT G-CU.VA. HERE IS

U= 1 620824911235547 , -10759331980 ;
V= 1 -1381:75219494287360 , -2043:58608719360 ;

MULTIPLICES

P	MU P	TYPE OF DECOMPOSITION
5	1	D

.....

.....

K= 94 D= 100014
A= (-2458852000683071725667 , 4346680749901692940)
B= (59498533752677530130998:33524026 , -125748309457058554730367343980)

J-INvariant
.....

J= (.167211828235792850735:5244151276296:160993073462387:1946566512548220242179545:6590562234573000 , 51096405286252070705046:23
62945949682492865435947339:164679526963156432505292608661902702812500000)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 11 Z.

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V), WHERE IS

U= (25528354797 , -29300110)
V= (-8727211874880 , -94860998640)

MU-P-VALUES
.....

P	MU-P	TYPE OF DECOMPOSITION
3	1	0

.....

.....

F= 129/2 D= 4027378

A= (-405247752970803600770480203 , 197741574611467881858272)
B= (4372220493810194906933740504234535434790 , -2178243347775656586925792601090620996)

J-INVARIANT
.....

J= (-177670713740996669723741798135176842231673152044335596358024711323209669652047246296806403227697365053440096301799424 . 6DB
3500716430775923728704125901860657881465683318183330833252014908775002783478663811824505116963352924240317293263725504)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 11 2.

A GENERATOR OF THE TORSION GROUP IS THE POINT Q+CU, W1. HERE IS

U= (960787828043 , -3527904340)
V= (-231605005370112000 , -163216010740224)

MJ-P-VALUES
.....

P	MJ-P	TYPE OF DECOMPOSITION
3	1	D

.....

.....

k= 72 D= 22055

A= (-565166284304257588 , 220631929372952)
B= (314856415075747117273745600 , -764531182404193977936576)

J-INvariant

J= (-3304584371083498509802122814581962136971451697383933969157196023360576 , 68168159682206546236148632371302632499438099399503
95996210198331934256)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 33 Z.

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V). HERE IS

U= (296585758 , -1261230)
V= (-26983031040 , -770945788)

MU-P-VALUES

p	MU-p	TYPE OF DECOMPOSITION
3	1	0

.....

.....

a = 159/2 O = 7635110
B = (-52947452435403885926631041003 , 171016551620752356755352)
B = (195615926004575311215861615569336595994310 , -6092692190314084311013878422469355896)

J-INVARIANT

.....

J = (-1441695024376087488450476905198853078156831399555487788278070031/4833527024748287386420913305422160740022535459283785718784 , 5219522782072222179504748726956378598229086052854698592926328635631/3691566781775265274807552297109741836028804215368738005289182224)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 11 Z.

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V). HERE IS

U = (36832585567483 , -7677326720)
V = (-827162542017607680 , -1334533132286464)

MU-P-VALUES

.....

P	MU-P	TYPE OF DECOMPOSITION
3	1	0

.....

.....

x= BT D= 628213

A= (-5902876604073509970037843 , 4214464560710100044408)
B= (5852529265200467470291516443723638430 , -463135082014151630513787772050216)

J-INVARIANT

J= (-23346123400030134730349580229795596637675255719128195498973980702396511716249334931432679552410496433192916 , 42602599014710
0149050969627362811451731983421323603106128775748928936842220600156027975075809602792540815793972)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS $Z \text{ MOD } 11 \times Z$.

A GENERATOR OF THE TORSION GROUP IS THE POINT $Q=(U,V)$. HERE IS

U= (1005210500127 , -688071660)
V= (-2191697071765760 , -16435453363329)

MU-P-VALUES

p	μ_p	TYPE OF DECOMPOSITION
3	1	D
11	1/5	R

.....

.....

r= 189/2 D= 12932258

A= (-45982382609893206773903866203 , 10067009900291521575689852)
B= (4502518792755600095963343314962481042209430 , -1278470824861612965656696059707415:97256)

J-INVERTANT

J= (-458180245402913556718859397121088952307431850392043526343526960519231/519614205540578551548861010162972603760456168551961423
7213504 , 17552319887689238048527169024260478744957362332168271552355682878889061/721019298398512367830199479233805:92081657802772
398722805452577388)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 11 Z.

A GENERATOR OF THE TORSION GROUP IS THE POINT G+CU,V. HERE IS

U= (108096472236723 , -15323237100)
V= (-2362605640292156960 , -319271052479108)

MU-P-VALUES

P	MU-P	TYPE OF DECOMPOSITION
5	1	0

.....

.....

X= 65 D= 257741
A= (-109807764629554586067011 , 209108155330217673784)
B= (19195303760413160377312660615155182 , -37777304500009580118469509559200)

J-INVARIANT

J= (-2774774915027031636974502273061855303929110175527721/19891176719704127088040005587460361000000000 , 4534001504212256519162
45767182836595138975107653003715775289130700012700027662708565420750000000000)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 11 Z.

A GENERATOR OF THE TORSION GROUP IS THE POINT G=(U,V), WHERE IS

U= (15776033559 , -218514796)
V= (-478162067360000 , -3763197360000)

MU-P-VALUES

P	MU-P	TYPE OF DECOMPOSITION
11	1/3	R

.....

.....

x= 80 D= 30401

A= (-1331327568270148056 , 6793019277956856)
B= (778761158090521284416508408 , -4544073672046672930147008)

J- [HYARJANI

J= (-1445429136793557756251029560633781961971/3726501702703738225664000000000 , 525599717286521469841031057929924794141/141607044702742052575232000000000)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 12 Z.

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V). HERE IS

U= (578401926 , -1921926)
V= (-5121792000 , -1313280000)

.....

2-3

.....

n= 175/2 D= 10229006

A= (-17148458963374107426659204011 , 457679774433321650476696)
B= (11147523314042473077981725019003850044557:8 , -533470153718820001495461025579284778243)

J-INVARIANT

J= (-566856117803:5899000007065494237531299813217381693504393141814289059/6080595264388:25:416524297785678467020919687500000000
00000 , 13455429612387163922941210403989557802922768594433498023:4172123017759/710821586406971829059:6904:1458127947455:16875000
0000000000000)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS $2 \times \mathbb{Z} \times \mathbb{Z}$.

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V). HERE IS

Q= (6669438719369: , -11264321676)
V= (-148101371320000000 , -2165221800000000)

.....

.....

x= 95 D= 021291

A= (-11453744713341016497409651 , 10376450574286590257144)
B= (10096005125600414030796853166763045502 , -29606159197026649768807719384462033)

J-INVARIANT
.....

J= (-506540593768369584252002092350137507071223870470513760697702/559687426025329515186456751864774530793959000000000 , 97190720
736761477584842140231467202857726174740456097754665/9676995595815421317578836873941951775747551110000000000)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 11 Z.

A GENERATOR OF THE TORSION GROUP IS THE POINT G=(U,V). HERE IS

U= (1785742707439 , -970129516)
V= (-4764556611360500 , -25615895760000)

.....

P-1

.....

x = 131/2 D = 4221862

A = (-489774034048825134225746811 , 231890359214340343157880)
B = (5784914350854305890341728604429829129326 , -2811080122391350347002332785284244744)

J-INVARIANT
.....

J = (-596649760245410270363422781013201815351054007679058734449798599/41192618635876257246228384787943380023593590362931302272 ,
8718560181201778272319167806971210494992010571694343544453598531/2654882204319496532033921856352656148896782990074678194034944)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 11 2.

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V), WHERE IS

U = (10606090071387 , -5539083724)
V = (-234382793073433536 , -500753528672192)

MU-P-VALUES
.....

P	MU-P	TYPE OF DECOMPOSITION
3	1	0

.....

.....

D= 75 D= 367717

A= (-453628921004431539875091 , 695979822292987711160)
B= (158463982520185483064061602121598734 , -257725312612425695100328425618824)

J-INVARIANT
.....

J= (-64027271175110045744053285073140105752542597913232686921/2591754745558328526874986012078401041785197797800 , 106119606019266
3929470557601576267463399756589231851056737/26109357284591799364958609287158626074146097415923712)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 11 Z.

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V). HERE IS

U= (351356559145 , -541179084)
V= (-96161805613300 , -6771958141824)

MU-P-VALUES
.....

P	MU-P	TYPE OF DECOMPOSITION
5	1	0

.....

.....

X= 161/2 D= 7932602

A= (-6122098131113444714920452011 , 1944658146209426329483800)
B= (245455591176031625845326456774754601273766 , -8467543715745486106514000200416083084)

J-INvariant

J= (-2216101396075472819586126010704213836067397282642587889051472544359/5540873974527149267631298256489247235717990841532697440
752 , 7768433848645007369793345113299554116453641557641097256022562376721/545953344581090736182470798083985245416850755978997442
640216064)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 7 MOD 22.

A GENERATOR OF THE TORSION GROUP IS THE POINT B=(U,V). HERE IS

U= (39428932157067 , -8270778764)
V= (-892459262211085056 , -1421115156388352)

MU-P-VALUES

P	MU-P	TYPE OF DECOMPOSITION
5	1	D

.....

.....

s= 88 D= 40657

A= (-4281233914957465816 , 28075562077063960)
B= (439169428553699283273702056 , -2081436511902915642690498)

J-INVARIANT

J= (-325840273482759048937155269110211618051752433689507189261195750932504128 , 82297802015247187244867598746624102433599266467
979584552225396804233903878416)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 22.

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V). HERE IS

U= (1054791262 , -2815454)
V= (-91382328576 , -2125170832)

MU-P-VALUES

P	MU-P	TYPE OF DECOMPOSITION
3	1	D

.....

.....

a= 191/2 D= 13352302

A= (-50024944281835576987318018431 , 11211702667841062247373720)
B= (5448047419894405402150959453309697824481606 , -1400509478289680447397167603504802626824)

J-[NBAR]ANT

J= (-6449324048043332923436803149:0222402373013184091010744942174343487919/69438287534964831466205877925493237016460883:9304967
3237432 , 248207160974589332797038190399715293288648791665504881:176262280081897117970830585683851168235888965773112260453745429000
986660635075805184)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS $Z \times Z$.

A GENERATOR OF THE TORSION GROUP IS THE POINT G=(U,V). HERE IS

U= (115459516578747 , -15982046604)
V= (-2518371987845642176 , -5366407483750912)

MU-P-VALUES

P	MU-P	TYPE OF DECOMPOSITION
3	1	0

.....