

.....

X= -43 D= 9909

A= (-16163359771034105441587227578900935705075520401017364440 , -21702534611420907576161670060124599850210109577320200)
B= (25100755062574342003100034201954130478337075230778341006746220622095360970037641030 , 505227552054703140027201100202605771200
1506551032711001327785440636203546847600)

J- INVARIANT

J= (-510370550417253300229513672704747652430965736195427022001047591046721403072351772155/705296002420167990185061000441272544703
66349024224707327000 , -36201229214710042846394727307615683385070674963404050657204970412001049759400104490296105/147166512626644
99463493560200205442220490015064710013435023015000)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 15 2.

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

U= (2639675153150100395103545030 , -1531255047057962068722666)
V= (27317067268107300045004014748122664202240 , 261107075610061062534362035954003559160)

MU-P-VALUES

P	MU-P	TYPE OF DECOMPOSITION
3	1	1
5	2/5	0

.....

.....

D = 26019705
 A = (10894140110622902626517835417576558540410411260592170013622115 , -33054786920554064636415645961006393605330:299821074149640
 0 = (130746090:4115813436137739070500047183530199400047653306426549901431181613922962044390362030 , 644443275501637227529776305553
 739048094557417454867538316073839156782526274287435184840)

2-INVARIANT

J = (-12075544104656417114752753114497946612424959603597924862521390074237399926084822708136010687905:2827326616:520845552832698
 8714536137409927792918209005060923449574179328 , -864116822128049449511376867182989766175341331343638295146196972:5846073436385043
 1910457473891965375:200723628681143892589829569118:1031286067999464514582095007842054646202303258624)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 15 2

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

U = (2221314760487074:35428142968715 , 28872708598998823089264224)
 V = (7800:0793758789:7797228176435144287267481660 , -141713618819:6386523295552454500178670596)

MU P-VALUES

P	MU-P	TYPE OF DECOMPOSITION
3	1	I
5	2:3	R

.....

.....

x = -20 b = 657405

A = (-1596762100621012005402709347504501736277749220915 , -305760511322097410605261362507015105106350920)
B = (70041096372850000517532194750505756416325930001407646 * 50495737697396030 , 2002431014709534440347472711210510094402511254101 :
0046900060944200120)

J-INVARIANT

J = (-14440030940379506311901074606019727127178189330051667021459946131090443355 / 950275061004691005251693602114401462141059150206
67320 - 20151000609000304773000574040100533560035059304676707977317401042101270500505 / 330070977060590624325035401741321476491094
1850020115031328)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 15 Z

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

U = (00205640259930635039335 , -07644509700652053954)
V = (235016052430019200136276950070420440 , -267060112445992970030730010046264)

MU-P-VALUES

p	MU-p	TYPE OF DECOMPOSITION
5	1	1
5	2/5	0

.....

.....

x = -41/2 b = 3092705

A = (-848615244103630130154849404403275271047435549744678315 -71159123031954615150932457130370093634997546655280)
B = (126789410549773048242038810059390329526745251995066713139506547772576729517005030 200392039074533950401459430232600612364090
932077990061004350353176674690016720)

J-INVAR:INT

J = (-110265471644600429425295140012141160540043506004617951090690956010156411605100474405/458135006290745724213721006020002672037
82100535423454239950012440 -310691504830613395077229599242111039205643623619571052040093494599754872532057524079615/7650575663517
757061305102503034550721405795602501171120033520207302764)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 15 Z.

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

U = (507201443710525615705253255 -20013444030466472749004)
V = (4070150516250224436829033169601514265420 -2071540113936905972252616727012536316)

PRIME VALUES

p	nu_p	TYPE OF DECOMPOSITION
3	1	1
5	2/3	R

.....

.....

x = -13 b = 32795

A = (-1055122970407107504772370513360707014040 , -6050044506200524470722509146300671320)
B = (32570500005741542502165705722210513007030007274004705345020 , 10005053997255245751414549401764495390575420236723744960)

J-INVARIANT

J = (-344341203040040743000054057004200504036107754341251949405/70642427796324107141015050656054630362040 , -35700053906022134996
077742440053672904751549271706440120795/670202620050610454440955520627452565195841024)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 15 Z.

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

U = (35032262010057454950 , -25500757994151024)
V = (102631505261107060020504499200 , -471247000110087770145505152)

MU-P-VALUES

P	MU-P	TYPE OF DECOMPOSITION
3	1	1
5	2/3	0

.....

.....

X= -11/2 D= 10905

A= (-9947273325099693657284005822005734515 , -52094153407945121107110255249320600)
B= (14514721476762515094609393146501072001120764173580702430 , 02557548293638514070205173006076400557995090276017400)

.....
J= [RYAR]ANT

J= (-16372502071530258070767469725224047031073720144921670505 / 32673400270590537255645641020945155132633540 , -1202600047065091474
D0654219104264232473423170024500500005 / 29055045791506091200672126004510500737010000760)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 15 2.

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

U= (3710647534225072195 , -4227253973106344)
V= (5219725105226061570410200300 , -22611742102767200020650636)

MU-P-VALUES

P	MU-P	TYPE OF DECOMPOSITION
3	1	1
5	2/3	4

.....

B-B

.....

K= 9/2 D= 3785

A= (-1047067000011337217057016115 , 29597248199153291812546120)
B= (42490626664615039307824940000039039079079 , -696070150056656704516971020026149200120)

J-INvariant

J= (-43620953951609007741011140657927605099945/25642051725954333470010330611712 , 149203459000216927911524064007600921695015/5250
569795009149777904615192760032)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 15 2.

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

U= (-9500699260295 , 310013063424)
V= (-191503600227853000140 , 3553297174910311092)

NU-P-VALUES

P	NU-P	TYPE OF DECOMPOSITION
5	2/3	R

.....

.....

I= 12 D= 17205

A= (-9400659900990442040699345676915 , 3750159600070421700630430159000)
B= (12741690409003457215292470143302970954000170631070 , -65245090777199954744102514551794474241571026400)

--INvariants

J= (-154614475031750004171742061555013036507270679060105/26400015503066447009065921350264512 , 4559070542015515110021140647146029
90406682260775505/64700202900637025991252570910405030304)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z AND IS Z

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

U= (0321625104063175 , 39990042230756)
V= (-1099740600549930017361000 , 16352009025530343005920)

PRIME-VALUES

P	nu-P	TYPE OF DECOMPOSITION
5	2/3	R

.....

.....

I= 12 D= 17205

A= (-9400659900990442040699343676915 , 3730159600070421700630439139000)
B= (12741690409083457215292478143382970954000170631070 , -65245098777199954744102514551704874241571024640)

---INVARIANT

J= (-1546144750317300041717420618850130365072706790640105/26400015505066447009065921330264512 , 4559070542015515110921140647146029
904096682268775509/68708262900637025991252570910603938304)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z AND IS Z

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

U= (8321625184063175 , 39990042230756)
V= (-1099740600549938817361000 , 16352009925538343005920)

---P-VALUES

P	nu_p	TYPE OF DECOMPOSITION
5	2/3	R

.....

.....

k= 12 D= 17205

A= (-04006599009904642040699545676915 , 5750159600070421700650450139000)
B= (12741600409003457215292470145382970914000170631070 , -65245090777109954744102514551704474241571026400)

J-INvariant

J= (-154614475031730004171742061335013036507270679060195726400015505046447009665921350264512 , 4559070542015515110921140647346029
904096682260775505/64700202900637025991252570910403930304)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 15 Z

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

U= (0321625104463175 , 30990042230756)
V= (-1000740600540930017361000 , 16352009425530543005920)

mu_p-VALUES

p	mu_p	TYPE OF DECOMPOSITION
5	2/3	II

.....

.....

K= 12 D= 17205

A= (-9400659900990442040699343676915 , 3750150600070421700630439139000)
B= (12741600409003457215292470143302970954000170651070 , -65245000777100954744102514551704474241571026040)

---INvariants

J= (-136614475031730004171742061335013036507270679040105/26490035505046447009045921330264512 , 4559070942013315110021140647346029
90409660226073509/60700202900637025991252570910003930304)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 15 Z

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

U= (0321625104043175 , 30990042230756)
V= (-1000740600549930017361000 , 16352000925510343005020)

---p-VALUES

p	nu-p	TYPE OF DECOMPOSITION
5	2/3	R

.....

.....

K= 12 D= 17205

A= (-94006599000000442040699348676015 , 3750150600070421700680430130000)
B= (12241600409903457215202470143302070934000170631070 , -65245090777199954744102514551704474241371026040)

- INvariant

J= (-134614475031750004171742061335013036507270679040195/26400035505046447009465921359264512 , 4559070542013315110021140647346029
904046482260773505/64700202900637025991252579910403930304)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 15 Z

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

U= (0321625104063175 , 39390042230736)
V= (-1009740600549930017361000 , 16352009025530343005020)

MUL-P-VALUES

p	MU-p	TYPE OF DECOMPOSITION
5	2/3	R

.....

.....

E= 12 D= 17205

A= (-94006590000000442040699343676015 , 373015960007042170063043913000)
B= (12241600400003457215292470143302970954000170631070 , -65245090777199954744102514551704074241571024600)

-- INvariants

J= (-154614475051730004171742061835013036507270679060105/26400015505066447009065921330264512 , 4559070542013315110021140647146029
004096682260775305/64700202900637025991252570010405030304)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z AND IS Z

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

U= (0321625104063175 , 39590042230756)
V= (-1000740600549930017361000 , 16352009425510343005920)

mu-P-VALUES

p	mu_p	TYPE OF DECOMPOSITION
5	2/3	R

.....

.....

X= -50 B= 6497197

A= (-11436940010470111499010410757020001577602036045104550507 , -5206096473430630407620164700102476033246451191040000)
B= (473153035340069001406710024000436370555253107571001044377530250106021010710901170764 , 52151342707211731046096065176257050992
934744461141030170716109290020006550007600)

J-INvariant

.....

J= (-4709000521060126079630979747925636517420250266000301456122137029276145400134704630240305770119260010453404450500755529505296
440506450810025705443932500000 , -122964471244243011044449679397204023756990090564473163360407502029150330700160335451570407020172
31349605593210215060997750201633321033075354900503300025312321006250000)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 15 2.

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

U= (6004668324450722767067544227 , -137900606475910237004000)
V= (10170077049959904584620537055062430327000 , -30274003715095303630646045044514215700)

MU-P-VALUES

.....

P	MU-P	TYPE OF DECOMPOSITION
5	1	0

.....

.....

x- -05/2 0- 54620097

a- (-3000613537631515722405407769502178202400578791401401822757420147 , -55212045620795222564695207025175125001656251094953521702720)

b- (63956814640760600837623347078726532547464460750212526790245357050276130924163029020555972340006 , 1747110029140177746365320344767902995400085500091017762713946292075420944685005010954207040)

J-INvariant

J- (-52672402647177352549527206910000057120645453775370440004725945070245992706162650046407554542104035107/952007097002013047753604520702229554779644001905010642770621001640996352000 , -17704076200004500709501111634700320474345757743712242942540077000126003677038344415004915430244223626004753/40942542550641617976025577572503660703001735630570071694522175220104100100950401600000)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 15 2.

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

U- (340640104733557807106776040767 , -204417916733325315495620040)
V- (4405095440217910754102102402400035036315764740 , -5467043734706671290423720700361144410371900)

rw-P-VALUES

P	rw-P	TYPE OF DECOMPOSITION
3	1	0

.....

s= -85 0= 1504987

A= (-24004672951644486501000095326220302629179743543075052 , -33797600036400209252411037922439551701050054010760)
B= (1637627244010155201640047000087257075235043043000447040070563070045251053476544 , 5140114502067642376600422070264520670416070
57954060773005702751302540450000)

J-INVARIANT

J= (-502052000032152320931421457226450247006027367007600512023359500631307007025965677/154006050770603275911019226062605624066152
91562514060992000 , -27947104900130473170000451950004700724610050015109007009600747200317413124960052251007/1946047606240045526160
00002916309066605461314103105210990107520000)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 15 Z.

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

U= (100913000063407664333732510 , -5000443233523532177470)
V= (270066194103220513775024607779077027040 , -202246463200476000744750111393054720)

mw-P-VALUES

P	mw-P	TYPE OF DECOMPOSITION
3	1	0

.....

X= -35/2 Q= 9001337

A= (-302774207700096015464001666765102640720763224712500000007 -256405672094092675615446972667444506190746754696251960)
B= (9623436550000902204794577296942197106410673995256126499549516733820190770330907651566 . 926130640331710065229265502152710910
05160047200740009051757520177050020105099414020)

J-INvariant

J= (-12553046028754703312540120011707002163070000009607250267791479496409562172730702744505720127/9240819402963436055163637112307
929532125450782367111643320054325072000 -404347107710671400125718305616120072629112796524950690421200772764770903125185563641004
270521779/56607004670700004063501536463005302237477034005670001300041400440012003040000)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 15 Z.

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

U= (43001360753124506759711016107 -1144324559161404743002000)
V= (2641754297495332636200630020992004260532220 . -7793012200502770047507500400540660950040)

mu-P-VALUES

P	mu-P	TYPE OF DECOMPOSITION
3	1	0

.....

.....

x= -20 b= 175477

A= (-51317640014010274504040110371704400313010267 , -3344821172734004157734571250900000523320)
B= (145470372100075064005003205719065430000211705129719043206740001326 , 137002950203066347410041707950712044002621061741019112625
5600400)

J-INVARIANT

J= (-205200002670040333554300004346900101000416640171277070457460102616507/17200656061037032150156033013170504601750200432000 , -
2914534577365779330610072307004633305617310642401507630006000673706366037/250067960333300629735312060450190036434390300150400000)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 15 Z.

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

U= (5336102017203100112607 , -1202036617522130060)
V= (101303700764073443550020704700000 , -300062246119517040327140700600)

FD-P-VALUES

P	FD-P	TYPE OF DECOMPOSITION
3	1	0

.....

.....

x= -25/2 D= 449377
A= (-155129608371007645757401952290644309267725007 , -9432061200017237492965099010829790401642000)
B= (24997101330075291245307556725455133104101954249422650099626001215057444 , 212945011299001291240752901677551303607015606410200
43064007243571600)

J-INvariant
.....

J= (-93520422973946741375936741690844906223006019071015342416037540121428914747/5261001150527360170034940627277800572172537148177
920000000 , -105204202600045047354565575004966970090041179970169751200245345166305192017503/129950461502702626742637100791000004
001767024905611664000000000)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 15 Z.

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

U= (331356723704500032356447 , -45052364295307507900)
V= (93482363707429371133005952450454100 , -1140039127999264302304281723600700)

NU-P-VALUES
.....

P	NU-P	TYPE OF DECOMPOSITION
3	1	0

.....

.....

X= -5 D= 017

A= (-2000106712674061436040900012 , -74402552497111700039760000)
B= (70164039991650500010321065043701620129904 , 2216409974604639445033102105736059042200)

J-INvariant

J= (-177020642727606000015176100103223545067/12495271061400002274250752000 , -330404481659000330147261620533563653770901/6015362762075096000160001200000)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 15 Z.

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

U= (63072529581630 , -355947541210)
V= (403997040060116710720 , -7093600524172709760)

WU-P-VALUES

p	wu-p	TYPE OF DECOMPOSITION
3	1	D

.....

C-8

.....

N= 5 D= 177

A= (-2073701700359333075672 , 105461241045040124200)
B= (26000151518464634794047638094064 , -137000400639007373005571004047040)

J-INVARIANT

J= (-73009511027031073955056042023391/81306002207653071616000 , 25603360000720071760225964135007213/52000050434975016550400000)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 15 2.

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

U= (-26453005722 , 3677364210)
V= (-4600076300417020 , 2763740750671360)

TM-P-VALUES

P	TM-P	TYPE OF DECOMPOSITION
5	1	1

.....

.....

N= 25/2 D= 32677

R= (-113793400010000011405411554639151122410131427 1167612902606722699407300994626542033777000)
S= (20520561472609529704037063177401770002133772303910910042075014003204 , -24340001417295210330093317720770520530722027752610002
762500476400)

J-INvariant

J= (-5421139016209446700501070042429964050700603102463625316795272023461341/570215499219056300176406441070202263729467210777600
00000 , 5003076055619030139305153061605526203661203616640100061470976060703533121/200303493961301056436372767300910563640550636
220960000000000)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 15 2.

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

U= (10074006330061100905547 , 10042956124700370000)
V= (-230019534060063000299160200044100 , 46070717009535707004707000700)

mu-P-VALUES

P	MU-P	TYPE OF DECOMPOSITION
3	1	1

.....

.....

x= 39/2 b= 2071005

a= (-50616020709904225460003470013771374645115101256315 , 13137520011504472035003142070067510251745532720)
b= (179522370074700717640156362364661673504012277100509509677924019190312075670 , -5701667647770660019248205133505014014067136700
700044667952791630003200)

J-INVARIANT

J= (-22462040462020610671019365232235071649525400337003670000703452333522042504005/37000121977545609503600935666403616673611776
00395049913302 , 12004097320506000500017740660350524100100104267422201037612053355017319952010035/1104205743294730904257535605470
7332060310471027206010527542657024)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 15 Z.

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

U= (5006040407534077201105055 , 52019129651061301200)
V= (-6763301591060027370290540720537600360 , 3621074104072640956034010004309032)

NU-P-VALUES

P	NU-P	TYPE OF DECOMPOSITION
5	2/3	R

.....

.....

x= 27 b= 091505

A= (-111509740079000054015000001000000104720310000 360157264500000019550000071653343300000000)
B= (042341209539513502102475420000007701202106237401302772310700793090000 , -2259446006154515567535000010050100041000700074339114
95644010555000)

J-[MVAR]ANT

J= (-2010117400215001000003173775013740627225000143170060970235102766730045/3207307257600601200104213465740507605601950004002 , 3
05203021000317091267083272652707249904250400010701957357312250003393225/122140532620560110054055095522530107706622015300112032)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 15 2.

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

U= (47050950224172010000300 , 10512070791277590134)
V= (-5663210409936755109164331111200060 , 0620630230601002546090073370504)

PH-P-VALUES

P	PH-P	TYPE OF DECOMPOSITION
5	2/3	R

.....

.....

X= 60/2 D= 21337305

A= (-9722610054607700460004001754007131130719044317772002376515 , 370044522941390600213002021410757621013707033640000120)
B= (37549132519120567940220000654721174309600034710064694000535470051579540067732950405070 , -215447252303504160220043002215600
70609000520373262930075305129935062564640337007000)

J-INVARIANT

J= (-4320277023601702346720300000005045000000052095001415474200546500041555370004400230400116145/20005762701774053115670451627013
222947643469004141601027050000629072 , 100750074355004213310044301511264707176132703552723000900340050050170215001693372062133006
0105/00143710007000360065005756000954043521066697013976175007660231003936053240)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 15 Z.

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

U= (46006445194064405727715006715 , 114653000369653207000544)
V= (-4022706515617223619271074602644195000101000 , 010030244040600330156446052440051039972)

NU-P-VALUES

P	NU-P	TYPE OF DECOMPOSITION
5	2/3	0

.....

.....

x= 42 D= 6205

A= (-1432747011136099519013004480005747650070452410754315 , 2120121093430178342144100070297052979950506761720)
B= (210416709172275426224079343315195551407041864426100604563534794237736824470 , -50031070772764033290193104742200652720207220
515223200074039436040564239720)

J-INvariant

J= (-3202336490000379763240056090774726410634302699909763970000074175170009909661295/9761578343059041254532163024100746361725727
2704676410272 , 23029003704230973410000074610266453347910300400471300171543375444300636307571500045/11495453160206035712050123990
457333020557201400130600777061296)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 15 2.

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

U= (10674409060004010606703495 , 1022901316097020527104)
V= (-2005025995034130197123649207692702040 , 207743004909016730196000051734307012)

NU-P-VALUES

P	NU-P	TYPE OF DECOMPOSITION
5	2/3	R

.....

.....

X= 99/2 D= 92143905

B= (-131711764013032263273767014079006200434040309516470725519456715 , 170723674564070570042543262243631002026475520060620710050
20)
C= (105053437034601007036100343100520100723097065044640954030195201352725013273003307050230000670 , -55700037000370303060006427
70900376000000720700042762102107065573430057663702900275045760)

J-INVARIANT

J= (-87760010720643577326211711003276204700265600033409240140044513507631612040701676400547100470715045/254002350977600105660511
06330975004052017001640930401613702203125777057133 , 0071300033903610920001153734544701007600970424030343506086051753305400227
001905765503064041160560045/376030000715030000091570270367000022066521057037122000446756004203151075163600044)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 15 2.

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

U= (1037409709023244204127363101575 , 130021509046010645730002204)
V= (-10011006707002000000001064201650442534247401300 , 215405436003305246070441733627767019321212)

mu-P-VALUES

p	mu-p	TYPE OF DECOMPOSITION
5	2/3	ii

.....

27

.....

$x = -99/2$ $\theta = 99996703$
 $A = (-4423111724974149337694142648573065196049035074671829307543354339 , -31054661609050664996951930911615645236405330961764643103600)$
 $B = (115007054340079029920947154056163034163660260042982310714796009760131204221300630627000420255270 , 10099490069963242140009771070701034064064062515009951001700007279351300794705593501490359064)$

J- INVARIANT

$J = (-2532170057947782100164431323927705021470466791483445409643001600655054634055024579965316020075625233713/500432014655236101635917009162435455210340033183600177102029137934648159076200 , -77101907479913075066120225172409048199000440952097766481990213024900409036464060912157066296450009113940261725164501023695126460955501624714752102150332973078345416559530216625732075452050221056)$

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS $Z \text{ MOD } 15 Z$.

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

$u = (42904223091594306629736331001650 , -220924315499641022930047496)$
 $v = (50423435700140021604273249000959546003142010116 , -40356220722435947667679252450090906487660220)$

.....

.....

x= -42 b= 3257053

A= (-5971406536265017210421066945050510390790034620976659 , -458016549960302050366510064327050106552795173712)
B= (170062943405772220720405190007012750711321706324622417954413611200400001050150 , 20250945500072445200925410661524520504020523
642973609060220706306160014576)

J- INVARIANT

J= (-131435256964310727596766017124260220095445610054903066317660751209476549041502010103/200096412651070047670405996404726400210
005207591240556604120 , -11057064172173039541060014002142370752653470315094464727081401091549572010654002995333/70790407626040004
027633705731600434077600457344329042336567952752)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 #00 15 2.

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

U= (50000201753611201740741059 , -165900440032760000024)
V= (7454697704714261756024073444260644676 , -30250974450920006601327340300406060)

.....

.....

X = -69/2 D = 29950753

R = (-75227100000019510100057000003701005757133733207332002004139 -106547076556200613420000000004005000061305441223610060)
S = (2046760700001040011557000000000000004531764491002004519991000006534130215220025142075710 2520101000000005736050012191242023
99902570471007050031517331002200144305715476312004)

J-INVARIANT

J = (-7505704301650151000000220043074907073315700507000030612002010060020120025794110017043015010507370502906700277251550047600000
100507050163000000250003422100503107063100 -10610043027605500473076300070552101550000024447430000400111540330051106010230700
077007700000059107355435571079503000105101545300000012500310500700755000016010705057043700007664)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 15 Z.

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

U = (150706773100073670770021063600 -223300101700277052100054)
V = (15250001530003250071454000702067253000309516 -2006502743220000055766140172325106103460)

.....

D-8

.....

K= -27 D= 569918

A= (-1024407400006751000004003447014760222400261123544 , -20207643166306152149147209194446066429409032)
B= (125249001054440544054395542541395542051777709191009064169107750555402619072 , 520795070973504604043630540540552406497076411900597
0619076127532064)

J- INVARIANT

J= (-22445304501020400030420473051347605031470185635974257006211001790457517043/214754766410265190109095419501196050946297642405
0400 , -11409709751639063343355331503771050244027173163942440151936470936390450702441/21999121510304105037209455459105064303474003
7032690377344)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 15 Z.

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

U= (22001201120477070700000 , -20437671717520971406)
V= (31005750712305440576130079011422700 , -37030423633910632064050673602560)

.....

.....

x = -39/2 b = 3542713

a = (-1254730017007016015072021762702117003907135396036339 , -22005242322331213047713010713439423601306070330)
c = (176322033270076761000153203420095150111500977030033610274047659136112460950 , 44090776060764611700903340003607709325607032
1703522644332500091001000364)

J = |WVW|AUT

J = (-7603301120513000000502041043415530774730007607116303220009502791731001030011033/63270430122307903321500473603007170300740
170992420090270023720 , -3101120079103934340430236090007304599000570000567370593305033433049014730513997/100900069007231600
0000935436753797633306006020002507105034230723420032)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 15 Z.

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

U = (2655370436616000000000410 , -1717302302772000270176)
V = (30001367046743600651646915034007107316 , -30153443763003737257503115101309000)

.....

D-8

.....

K= -12 b= 23973
A= (-133007542001717907107077172600401059 , -561554121674002921782180514220192)
B= (19905105910034622920001500235707217790070749403760250 , 75510102400128149200220214075029000770636214761176)

J-INvariant
.....

J= (-57005110607440017050217005480720650021436007051575224003/8474565153780000044632502017600747150000 , -52309500742951154104634
9007101567102065763737905612553091/16581001001400620496361634919034674943784704)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 15 Z.

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

U= (810002029216754819 , -260055037249044)
V= (06071367100201044718756776 , -457567072000630201775000)

.....

D-7

X= -9/2 D= 177

A= (-25310446221125573373321309889 , -14821472707512654496261347216)
B= (9430313400703220007007553310771763734161362 , 3700951140478421090510304712070670906033552)

J-INvariant

J= (-1247999452750300240967841279740500679500495053728293/34765401307000040536772326054170237340000 , -34566219970252357510743693
21363019530004536000433440/1204423910076212004799161125497275241736102)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 15 Z.

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

U= (64104275009551 , -725270637900)
V= (12720045320004076610012 , -49243750240001006940)

D-8

.....

N= 11/2 D= 9313

A= (-270410000020200697340165500962059 2649954334174071746361029873632)
B= (2906401738341602950507336936442202710310550012902 , -2400002394071373006740442050377575070494612544)

J-INvariant

J= (-207020001600090235342837429016195714510019957141271951009594443995011720403394602676373102704 , 227547029641354275105007473
20324467244733110031752574750031501902052036420294530095200575000000440)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 15 Z.

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

U= (-153309982336329 65036260452316)
V= (-1332071534015043340217440 , 161646554232400099909000)

rw-P-VALUES

P	rw-P	TYPE OF DECOMPOSITION
3	1	0

.....

D-9

.....

N= 13 D= 24073

A= (-1000242150106332441430075216010605546 , 50525100109150157101130347774006560)
B= (34027063065517010367400071072000700731276252662030330520 , -100101050134735102040427310041516416710606073500000544)

J- INVARIANT

J= (-1768021125750497510310251500761534560127340400007007000120/10624134500042500060042057064950650004064 , 600499500350700770.32
12204215571137024046000050075700500231/129968311600002711766241540775643356017157600)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 7 MOD 13 2.

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

U= (1203400002772000554 , 4366501472510366)
V= (-3007347053673000601079024000 , 21755171700005600142725120)

NU-P-VALUES

P	NU-P	TYPE OF DECOMPOSITION
3	1	0

.....

.....

n= 20 D= 2033

a= (-10754025477002062127520704070620627007 , 6205343517227 * 40150101600400040040)
b= (1000977719570270706127722046300534206100067052120006420000 , -1176370810172557022500010216127004180090606163242750520)

J-INvariant
.....

J= (-1700101540044202650072471060045110111095042304070020607011671567951/2007754691010024470420271344200254004000030034000 , 416
20725705012070050030204102151042248520440701005332707116853000910663/0760954006408550051701363107475631090310750020000000)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 15 Z.

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

u= (1303700010077195000 , 30499213013401700)
v= (-01300061077710009549503310520 , 031533301077205430006404120)

mp-P-VALUES
.....

P	mp-P	TYPE OF DECOMPOSITION
3	1	1

.....

.....

x= 55/2 D= 8475617

A= (-44305872081723033570822320799030643751401021572951607467 3472671824000961009276200044059759595755504619305360)
B= (36839024571530624157510997514540500408734682579979401691678796921687332568371220526 -422051364940090606540260701010953007
70043303265006486300407063320523700049395120)

J-INVARIANT

J= (-22064250910157100102607421740105333640754502325006147607132500790755570054064074374014002001/2704044202570011103167105107646
1302717577600300401002764340762960000 50979000200061421926264305941047602300144360793675107004091295313105070971681510155177379
0004175330330420700436357000206540100714652752436102626032223712579409140767200000)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 15 Z.

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

U= (0447953466311000190522023207 495063609192634270097300)
V= (-69676774029632374260016000064070065023020 101995005465164503697100733100122210100)

WU-P-VALUES

P	WU-P	TYPE OF DECOMPOSITION
3	1	1

.....

.....

X= -54 D= 1417901

A= (-6411394012070630000070351062076708112991045370771, -9321364009162202140795953706061003272099304944)
B= (641221070432647337050171082700454764407702416370000519004000021101003039662, 150214630050007000329134220290960215355560106
00610063304230000005452760)

J-INvariant

J= (-3906500000002526000376001005334001021413600000600000046277502200200001051761/150010210007512082321930210009204000473064
007739043700000, -000051137371000007030672706100302000001042702047133206421001041370003777005005013/20040645015234700426433
156001063206015170170100102031660156390000)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 15 2.

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

U= (174100705212500077100079, -1019031115600704160004)
V= (1771761602206700600910511000000417500, -1700064000005320470460541505312500)

NU-P-VALUES

P	NU-P	TYPE OF DECOMPOSITION
3	1	1

.....

x= -25/2 b= 325241

D= (-1514219540772940219000095402047012251015620771 , -10000700700201253740006551750007192104300076)
D= (621600112676014337707300027907479114534743367542020500500090039062 , 65004110511040479705069776306415110000002610001675071
2700764103672)

J-INVARIANT

J= (-066620150040000000751725601065007295143700004206250143000090040006402013/50100546410056473041001591530500044726542500000000
0000000 , -70770017507002756307052053120300461100095022100736019014335301970275157067/240000455000797072004341562730504400402
0507012500000000000)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 15 Z.

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

U= (0006644173063420470079 , -2260040646700422076)
V= (160157050007101001576579500437500 , -22666714006770001600042226562500)

RU-P-VALUES

P	RU-P	TYPE OF DECOMPOSITION
5	1	1

.....

E= -6 Q= 341
A= (-001030445847541202642011 , -22000402001045719901504)
Q= (1652096205525116095555451710265102 , 0510417103091709991659064473296000)

J-INvariant

J= (-176301326020722634160710540079500003/29010960070004375000000000 , -15332661022206703640006720103205865901/356790017650012012500000000)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 15 Z.

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

U= (09006400190 , -770059004)
V= (012757000695625000 , -20412164345625000)

FM-P-VALUES

P	FM-P	TYPE OF DECOMPOSITION
3	1	1

.....

E-U

.....

X= 6 D= 061

A= { -10770290490151264105011 , 905007054772254522754 }
D= { 1004726666150059700006510055600710 , -06015700004152020100715000900500 }

J= INVARIANT
.....

J= (-75703040549065660290101204716020007/000176554260710037500000 , 705561176051734204142665860170064751/127006340045586621000750000)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 15 Z.

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

U= (-5700000500 , 160306064)
V= (-3150275400437500 , 1247602772012500)

.....

.....

x= 27/2 b= 431041

a= (- 22004061299267679018500010010007701915619601 , 199471102561190517218946206067771073291904)
b= (107514440907423605407169906006100670767927444723712650047310896670 , - 136596142753727077500539206425044631230604260641043972
0577012033)

J- INVARIANT

J= (- 5064557052061004160174400675215000000766100147541071830577020000000097/1020957313154163720060037110627197265475000000000000
000 , 085509421000715572256796263300720000596402000001712600275306700000106045937594363050716771666376090502173955094402421075000
000000000)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 15 Z.

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

Q= (0450015020700053541451 , 1261200450700010036)
V= (- 5050000093000644645043043317500 , 001576700761629600350050057500)

.....

.....

x- 21 b- 173641

a- (-36107707390509376762247512308312715025496 , 1065004000029544619503250117701052022576)
b- (1670461701715000661875762106206312921276002051200099170700123712 , -173240027629312061017100160601219812907491500000726056059072)

J- INVARIANT

j- (-34270400095255100612990200019907517724802292009653773190527000727/190542702100415005010276453515264000000000000 , 300220003145092629066007492100964077000101940105150501901107570000127/2630009198250120470012066507620041040000000000000)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 15 2.

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

Q- (6545010025410160604 , 255124100007301026)
V- (-126627326410126450164240000000 , 2534671029500036010600000000)

.....

.....

I= 57/2 D= 9004021

A= (-1700454131000027793709701101512270702000014343042000211 , 125229000174517173370405730539446610000013216010020)
D= (20000413112720631654271607107501550070729433460025301000204157036710052069453465110 , -50530000416273710600050520400331037959
00364575160753034700633954666072705630712)

J- INVARIANT

J= (-20033401305778231812002764277102170001190291470406525460091422061933076110602000700961637/1504452217000933060296490370604215
07906300073246477796000000000000 , 04747505170001204*50610613700012000127001045009015502673005950754710023100570331002742062059/
5736391670000613007663502120100310510207379720100507221771075000000000000)

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

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

U= (1914700106251000076201006201 , 0099310002046737119096)
V= (-0300947000021244331454947644163004607300 , 14651602347275600906174140401300312500)

.....

.....

B= 36 D= 15101

Q= (-916347907777641100601495000202794290575440923251 11790110408227913072294290363376070510111023576)
R= (107790755171614300425019777013030691552233379050040542095327363275005100 -24006012000577300091200625264615212543654866150
500794005509076000657000)

J= INVARIANT

J= (-1158704326323161570629170672544099120411076772020110099366702656712630727071367/1057075043781013540671153210647903500136000
17500000000 600075211181220472672002151094600310000995720000550760417064200002000276950070647/002302510000134070001710057500
0040100755106706025000000000)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 15 Z.

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

Q= (1450105001545390443627711 1357701305095076530064)
V= (-654290006175210106004305411666075000 6002750960042390010004470010625000)

.....

.....

X= -97/2 D= 92137633

A= (-1097095031110057022200475000436000121025107677000970605400004619 . -29500070263916330720566972013070645457500263640003344
951700)

B= (317421049340002257044491130717770059064763000753110673130104000450002251702500470004000076050450 . 509241913011302072170160
310049103099702763361 7425400500495310047675340070465344120056700144)

J-INvariant

J= (-22634610320004400022576717000057700010200001164331300045723104334100703400004533750053331900049570755150/657023274652132000
737013704337007510311037095131000971022251007004331009164401304 . -22634610320004400022576717000057700010200001164331300045723104334100703400004533750053331900049570755150/657023274652132000
0012007300062333000634600736120070070001954770/9470000036460074540000990102200750070579060332720661095004500490003656274205050064
50040)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 mod 15 2.

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

U= (2010320004270013364270010444600900 . -1532150047645074030620791060)
V= (054931022761807231075070701232000030750975602540 . -05714600134900413633100106450102085507771006)

rw-P-VALUES

P	rw-P	TYPE OF DECOMPOSITION
3	1	0

.....

.....

K= -67/2 Q= 21332953

Q= (-170071250000700500007126376706232290310006300640007500075739 , -65000120634651200649204254376123227200706447040071233640)
Q= (0829432071205306195656207704460770021006706416530700067007374500777072600400514563461010090 , 50054041771377742902403330630605
20001070714436432000000001757646490041205461632001144)

J- INVARIANT

J= (-1411001570100010070000000712000130004700000131504706700000770033130100376501776700391326610179/0040032007720005704222000
22700120100700226377000037077015000000950400004 , -110040000011100416154457170100100054310160032100510764700100000001210340070075
00290500054907006501651/5021402632700015406500447040754000010009630001690900204367000369427000010050656)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 15 Z.

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

Q= (000001006337972335430002270010 , -1904435009705103630464440)
U= (2133355567129631468100000476679530410010000 , -433200732005009065000270500500030630676)

NU-P-VALUES

P	NU-P	TYPE OF DECOMPOSITION
3	1	0

.....

X= -25 D= 491203
B= (-161679483639759770757470655336300145464077830019 , -49646837032442571397576091230009954300004012)
C= (25430431133790600639001092179083627239601469506277019764300237109614238 , 11503017904319023770703179609630268373130300239401
65799777050230096)

J-INvariant

J= (-810016070012544039000434000071522510750111300016943001701133902770000007000/12906050734100250629543346459734543104041617377
3774940 , -1673701021915714070530649536011636716242250947102900012067912517252912951247603/517600076654240410342011093667292010007
72147010002109060112)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 15 Z.

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

U= (204310842903756317004189 , -24400488242700402712)
V= (45403106736613070646630005470514500 , -5950066546440353101571602065124)

PH-P-VALUES

P	PH-P	TYPE OF DECOMPOSITION
3	1	0

.....

Z= -37/2 D= 2069473

Q= (-2006100061041564497771066502267060060236344250376059 -0165319543305401345394030161941566430705372467320)

D= (116400007400067501120705363443050695102096336019031067260073635607274332264330 , 3429377916516651012433663367044400064720764
2160111024427742294350008137574)

J-INvariant

.....

J= (-1337762201000576701252261005131700100630064200591370201011273072940613060702313099/223005500661136337429504404067309649185
3114131010249500210979504 , -0514213310109130100073324544406106000303799063709054100634420310105057000054067429/78375345300
1904329032390206947500713042511317754055112500126265237500)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 15 Z.

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

Q= (10050573177427616306633009 , -003733649541755943430)

U= (432104993377400030616106074615217411900 , -263201064197002595946092994700255316)

WU-P-VALUES

.....

P	WU-P	TYPE OF DECOMPOSITION
3	1	0

.....

x= -11 D= 17113

A= (-1221762270073112606495364344010161620 , -4557001706036850095207271720664712)
B= (190266210004070152077172009549579051232548720756577472 , 54820171000510620044750010665002100627506470000906544)

J-INVARIANT

J= (-19209325400700152000457366700570631200956517232446002720/30344075006366270275600137534205002702464 , -797237757614600045100
0023370770102453200066001657046700131/1101000066725302000131309018216120685075675004)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 15 2.

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

U= (310700000129530006 , -5005002010194190)
V= (2906001707720710561530445020 , -10200070071014500066639072)

FM-P-VALUES

P	FM-P	TYPE OF DECOMPOSITION
3	1	0

f-7

.....

$x = -7/2$ $b = 3193$
 $a = (-67822771295868276788450489810979, -1859976248836983808379638870000)$
 $c = (2788343441246185861875889854771894957688999998318, 6889943889881868826875576416783671119895551944)$

J-INvariant

.....
 $j = (-2788343441246185861875889854771894957688999998318/2101540071777040545883719843552582631904, -24378472438848676481763835996726785423782016581127/182277888781381354649689347636181621153782)$

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 15 2.

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

$u = (13078246127636459, -34677581123888)$
 $v = (126527978864238947872188, -6823722889824728899996)$

mw-P-VALUES

P	mw-P	TYPE OF DECOMPOSITION
3	1	0

.....

.....

N= 13/2 D= 10673

a= (-12791044190908304044103117301507059 , 77100001267061010721446410310072)
b= (2261720000731012700000105000011340004061500077950 , -153670067011232500061790539021600070273654862007256)

J-INvariant

J= (-13100709000070000100044002434706700607150160006107332097/201001310701077164151012400470362150000100352 , 225000690763372004
110760903000157273061730064000400477790/31003103473611050000030002900222012016466400356)

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

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(u,v). HERE IS

Q= (1075077097094790 , 020063647007272)
V= (-122164439003514000170006700 , 1011109507211077003750000)

MU-P-VALUES

p	MU-p	TYPE OF DECOMPOSITION
3	1	1

.....

X= 14 D= 12013

A= (-1304237502237087571202104710001274739 , 372034900500002906907007023601360)
B= (24175700734041163000070646030104347070970002302435021990 , -0275631006700117526003047061390375200515070004710304)

J- INVARIANT

J= (-316747000003000000912072600135070020703412000070760771564307/606000170255070023677050710370101704256092 , 2400024004237744
5630004350004405327127702700340520100042477401503447311070275129900020100107003070022530)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 15 2.

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

U= (1220700049020634630 , 00000473733000)
V= (-23510520400011604073700072 , 1000220654626317253047016)

NU-P-VALUES

P	NU-P	TYPE OF DECOMPOSITION
3	1	1

.....

I= 03/2 Q= 3095393

A= (-1246000047000125007470944422273403419031127291000179 , 20600637733231647033100700030013447764003643302102)
Q= (17475340137205161151244071304057717205440632796499450944095041562077500229364910 , -42012097090324000422001006375056771774567
02076670505043000042116402400373056)

J-INVARIANT

.....

J= (-2002304429027701300000076000310354399007600000117003343440092027640007130410040200077/0310745332940543100731620304200401000
500410440401304713271044012 , 4444007000700407000000077112470041562177264220100405300000074010170105000451273403420371/11703051
01130000304213272254694495575000005409467512332300050690079600004)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 15 Z.

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

U= (144001070041600404370400159 , 17912517370051603300002)
V= (-1243047220107153643304050061533431062012 , 0302701104234361560279039323000541004)

NU-P-VALUES

.....

P	NU-P	TYPE OF DECOMPOSITION
3	1	1

.....

.....

I= 20 D= 637033

D= (-9900477017737000106376321170100952602070764300300 2545070344122500026947262125003100323153670940)
D= (11643176040716021225956329903645305570510510046487675034227709524200720112 , -05450763341049531524720093246063452070643009000
30120000041957330205454)

J- INVARIANT

J= (-010079537300757007637064553011002202670000142002602109070001677000007030167/2000330200002025012120264267610001956206057900
034700192 0100000021704422300250095034112450071000941333566031031099477010296544407053560/739549104634459050700044260530440000
70052015563700003291504)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 15 2.

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

U= (1000700306005451310095366 246010630033215000062)
V= (-00954000105010611051207001000061500 , 11000157510001350900335432000110000)

WU-P-VALUES

P	WU-P	TYPE OF DECOMPOSITION
3	1	1

.....

.....

X= 75/2 D= 26824313

A = (-501376009743619067043004356972713277560004075011343022955290 164514026070010377070700952952070150042700057279073135512)
B = (4367001610996000000000999370319901035421915163043616179109221916100009020360003195253393070 -212427541076109955053251573641
12430603611213300704255000462701609952600652170452074256)

J-INVARIANT

J = (-3040032003305740000000436956245197043034729109045271550047017961612531370040075101001000727000217/0504010012260019503666464
56732000670000536307510241360776431777370300672 2842007006375130470024073716421777570004004500061061510040000270070905
0632360970150500427155775/545300007070110732650046533075093099457750107020946027606512270076200124365432032)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 15 Z.

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

U = (1075771491164160005753761110370 2107570924709320907046012)
V = (-011910320002400697004576066099475000355332 03621101100065536779524295065573600367004)

RM-P-VALUES

P	RM-P	TYPE OF DECOMPOSITION
3	1	1

.....

.....

N= 44 Q= 3576953

a= (-53124500719467074712270023570027610966131266791202179 79436000170440010130620075254000000464295200157020)
b= (150137053724040009672736643327523009004003009176704700006490057322951660010100310 -1657765736956242009404574862260510672271
960710454010409266600974754360054004)

J-INvariant

J= (-17551760200068073024090649919670535307223013604020070644007025000040250643070554300007/270014402160163427105195600016670604
62043310171244025320533312 02700995100650000000041007060705154103007760225200111795172162095700060953320070011747010/461360606
136066261957004700107221557004054701505000430001070100063664)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 15 Z.

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

u= (562420063200046501720655100 14011701501137407001300)
v= (-201302000601270002501610100043200739512 1110400015400537070605037063070466206)

mu-P-VALUES

p	mu-p	TYPE OF DECOMPOSITION
3	1	1

.....

G-Y

.....

n= 00 b= 5527005

A= (-397010776042551097195101007373061165345077545212437113 , -20125525626129999042765010095560506712064601900530)
B= (9000010776042551097195101007373061165345077545212437113 , 7270615000079717005416160009101031750099502
0057063000777547043005702534706200)

J-INvariant

J= (-100011302360205461506075670147147007019599100306410799550952302700099506150703010705/655107212120516760122911562403240556362
17570600001206750952 , -51827302650015091010005711770321000036200701710100050002209950000500773175524640516025/627550616227605546
670300253703001503706500000007065267594700004)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 15 2.

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

u= (40900970900004710412000225 , -010001621052052677104)
v= (1500400557160576000150005500312000400 , -611006757015065003450017152075516512)

nb-p-values

p	nb-p	TYPE OF DECOMPOSITION
5	2/5	R

.....

.....

X= -33 D= 1296505

g= (-3128709911100420577102010162075200012177137900000 , -708401109123067731040545139000701050002052020)
g= (1041003190200010022000750170001107000170022033190003000000501707023910000 , 320610000007500707030707032025000635290056002
505040017007100040210000)

J-INvariant

J= (-060110000070010000450000071013112530757540013700710003405100050011505/37304091110007007071170063002737357040010100470
31072 , -2120070710900000400110411061200550530707070402223110500003710006105371000075/31004305313154106442701900795010000271702
005006132430000)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 15 Z.

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

g= (000000470470003210725000 , -310032771202590121000)
v= (20000002700050707500002471330070000 , -225175007500015000240030023400016)

FM-P-VALUES

P	FM-P	TYPE OF DECOMPOSITION
5	2/3	R

.....

X= -51/2

Y= 7302705

a= (-47985100171490745750003749979977779970007002075715 -3027522246839007740121007320174000010961200047000)

b= (69979401001012113451192444019004400000027701940043441551642520300470057026470 6700033599701770400004747007007300171601
6002975500950007734570454642921490600)

J-INvariant

J= (-975160001070004144176636365430000000000002597700700961200061105120002000004320300005/10000007204534000400152618750400107
162000733070010114000732 -701000077075000000001151007750000310007007770775460007365200001475405073160415190150195/619850000
1012110223712548323219427004407511507000010001000000129596)

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

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

G= (133007952607007017000603273 -00175649944622194517094)

H= (1030207136450776457924650006314725099300 -620633001516704502031950500002220000)

NU-P-VALUES

P	NU-P	TYPE OF DECOMPOSITION
5	2/3	a

E= -10 D= 116205
A= (-274057122990004400977060027066706504515 , -229062397500650254729740912772202542720)
B= (1630969723096082611570537206916410173837364250950109402795070 , 207139700991990744314500616502111011513646008390672000000)

J-INvariant

J= (-0950057122008644702702650000473620244290090659770040706950605/12100703067730600672200107000074305009753052 , -40717001960013450005325770940004210647001905756311564433050479795/12260100691039505400040021210112263000320207702)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 15 Z.

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

Q= (122001271150451250735 , -20004170011061124)
V= (524450077665151730031542761040 , -1553001304340036006701064002)

NU-P-VALUES

P	NU-P	TYPE OF DECOMPOSITION
5	2/5	R

.....

x= -21/2 D= 220705

B= { -1118864788458996143422722479721228830579915 -1093524295141279649577042223043108220400 }
B= { 1599306300060082164237500604005247708700100060700226240526796070 2001250799132108886752740715055906640702391330083136200
36100 }

J-INVARIANT

J= (-50058383760000405764467511040053000042704200034960161005030737005/21910211380020067509000416015793167625101057770032 -96
5109905036661040050967700522297056274350875430835004004243012775/102164300724179532609602932001116464240121325262127104)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 15 Z.

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

U= (2070000701176764200725 -00070099710040004)
V= (87007302700069000053005209122100 -160273041934738130075006472540)

PH-P-VALUES

P	PH-P	TYPE OF DECOMPOSITION
5	2/3	R

.....

.....

x= -3 b= 105
D= (-640000164768226440 , -996218706221994120)
D= (27206170000768781006016217200 , 263155756061485200014293120)

J-INVARIANT

J= (-2016361600675347867677995/1631770095544032 , -11900504610642949120001165/603345119292002944)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 15 2.

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

U= (14753401910 , -160029406)
V= (1500115163500160 , -50969195059056)

FM-P-VALUES

P	FM-P	TYPE OF DECOMPOSITION
5	2/3	0

.....

.....

X= 7 D= 1705

D= (-6075712014311209900200000000 , 12663010064301417796103000)
D= (2621002212010610040611676240371703360920 , -637006043607660003540714070072613330000)

J- INVARIANT
.....

J= { -14422635263012601000100010063591709635/066604344701450007036004736 , 10063073064160526700170036165060600600135/21193070366
577197505701166170 }

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 15 2.

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

U= { 37057237000 , 61033100600 }
V= { -01540047517063004160 , 11679921005700012020 }

FM-P-VALUES
.....

P	FM-P	TYPE OF DECOMPOSITION
5	1/3	0

.....

.....

K= 20/2 Q= 607705

a= (-21240275779732040014900479770423006790151676115 , 110021200004077225193695071840022402290412120)
b= (007124100004790742077540000179015050577100017047017207562016172420000 , -31400673002544507797735050563364756065000004409724
05300515621200360)

J-INvariant

J= (-524670404343230057707400131306304705176204000013107042704726425193695/642002000010400715350734172027512043047501041000
400376 , 2704000474041010010705700210004061453701314700100010300044005642900075/120056712709706570100450240230063020421000
077431000700750012)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 15 Z.

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

U= (1507053431070000070066315 , 01500040005340640376)
V= (-0371000077342570477900637536703100 , 133029071674469010016412260300004)

HP-P-VALUES

P	HP-P	TYPE OF DECOMPOSITION
3	1/3	0

.....

.....

X= 22 D= 212605

D= (-62091444329632500003404301010773495072094915 , 30477093557044210137539006167104050004000)
D= (1950706395999000000005142700024135972750003317532612092177374736030 , -1750154019701057300446724007007300003400260163315200706
99670400)

J-INVARIANT

J= (-810007007043720795133405170075134170031064120077173003052130015205, 244400425240062440067010615000207170710005172576 , 74429
164331500000041762795400340107700936000224100127201643712004505736551061639761650469182700001007977332497413232004)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 15 2.

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

U= (327501407002154004435 , 1002006741210074244)
V= (-141305435144700247000471000311060 , 331007550000200175667000160636)

MU-P-VALUES

P	MU-P	TYPE OF DECOMPOSITION
3	1	0
5	2/3	0

.....

.....

N= 90/2 D= 11204703

B= (-6531451951097001306133910467010072442013649017314230932515 , 205157506499300767004003491515631620064032155000006700)
D= (119502009700003731997775201190436707362137934705706166069151606400700019473310060919050 , -1106101908536957160525620999706074
9721608399720623600735550305469530359907511175600)

J-INvariant

J= (-75062109531007000001007000272016700100137797655206507543442317779010154270773631630105183/112060093023007997561000000310204
6092003324205131431972970002904016 , 445301163000000017027310470079051004304406706442957312072043604325306150007764763750390605
035/170716700619670670662722412001177500030330703731105700427243023021104391160)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 15 Z.

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

O= (3078450004705621710656450055 , 1271020675006023364950716)
V= (-260445000406091005047122600372736310213100 , 036611059307160670547605641640330175204)

WD-P-VALUES

P	WD-P	TYPE OF DECOMPOSITION
3	1	0
5	2/3	1

.....

.....

X= 37 D= 1771705

A= (-291909899653492997000512761969982953293096927090040 , 36753313100046270025947259970021497592945666600)
D= (198993197362970649006179900127470160010647621066175476240000406499727100617920 , -362114010000519973290139019310179047020729
007010464003174605575002199909440)

J-INvariant

J= (-961131626022030741061173716454001041015576700953020990710902705357650029003305/17297110574563521504700725700354200355025
6053570030016 , 099000000541542406307106172000361354205194701070016076210020069639500303650023005/43402944031200429065130017322
60772202170200721337200099490040)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 15 Z.

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

U= (0212401209605061312810150 , 6401379522050696970006)
V= (-2700010001269100000702494405085411200 , 2130839466796312701611339431990600)

NU-P-VALUES

P	NU-P	TYPE OF DECOMPOSITION
3	1	D
5	2/3	D

.....

.....

X= 00/2 D= 1222343

A= (-1374775437630300007041000220000000732602700700300009737515 , 172510460273000300000000044752000044200019024730763273200)
B= (634917000000140700420750422010443000700364017007352000501362100364000071623007136021070 , -11640640070412512607316250120000
30036000473700670566550006776710091700456067212200637000)

J-INvariant

J= (-76437000000430000010427433200010056400012700067500075000710073700000000720434000055479577510507055/100001347271052134000000
050037400000073131637400300750007104712130012100000 , 251600120000470100400271001040005100000730500710751305700530004337122101767
3104104532432100743005433105761670000120020771045002102727760067000437705356370004545660000502251700000752100)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 15 Z.

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

U= (3040063002000005530410700021755 , 0336701005570060467002200)
V= (-12043700022105045122454101044000270640233000 , 12113330111500040509700217424271504400971036)

Wp-P-VALUES

P	Wp-P	TYPE OF DECOMPOSITION
3	1	0
5	2/3	0

.....

.....

x= -40 D= 2606157
D= (-10517100020030645110001043345737000642004027016279047 , -0221600820100760700573600723630257770309751100040)
D= (112207707112200011122000110100616500010711721170306370006060575017064450065172004 , 17251621900000001307215186300475129040274
05100033000000310000000510001600)

J-INVARIANT

J= (-12052061054363121607729070400100077001217527001122702270000536072520000004261167511/6635441634716570001000027017001256261
20000506412570000000 , -57200001000000001197711001750000005611000030771126621232716275530276043200200042411007/0607075000101
20000454700560476770517002671110000000000000000000)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 15 Z.

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

Q= (21062330000073200000000000 , -000000000142510630000)
V= (873501500750250050670777310000730101300 , -30030000261040201003365077141730160)

WU-P-VALUES

P	WU-P	TYPE OF DECOMPOSITION
3	1	1

.....

.....

x= -65/2 D= 10929837

a= { -697763700077376161530609077004091775422609900644107361661707 -2000627275317115024400090640093207056002759707262622400 }
b= { 2369109905908170620610210000040000770041907702361002030702700010062015510404067200551206 , 10510075660701012056710021276275
4951295700702610440015540020151040643010009011907700 }

J-INVARIANT

J= { -101253032701205467100070277060700612001009127006463612209164709065602090010067215205407954094161/136313757449540440000160536
5130160000010700408520277377070100002010000 -2004013400327306500946700543210440004305747437327100400200075763501704530002
79031205625000030203/67313643651100752000072024505703031101422036410099425763616002205065209574000000 }

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 15 Z.

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

Q= (54007095176441000027541207327 -9432600021000175405270500)
V= (1005957062146240003057240332045323055401600 , -23542077027962611370080242554720202651420)

RM-P-VALUES

P	RM-P	TYPE OF DECOMPOSITION
3	1	I

.....

.....

x= -25 b= 421097

a= (-771724476002004717005450700790699946591000725902 -2632501670004077100005704000791100010045400)
b= (2608120751547521420004175005121021234512642226010000471000757500004224 . 15450003536343617005700476105500570547442510190703
1000171004073400200)

J- INVARIANT

j= (-.6751035277012254975440760000000320007077707067550072350520010001570040421/1030771241020000700771704026007329790000012720400
00000 . 5157621201500000311012479900674057910570000011603100770000034905272370020005/2626424712000725000063170507344701000615774
755964000000000)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 15 Z.

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

u= (6751035277012254975440760000000320007077707067550072350520010001570040421/1030771241020000700771704026007329790000012720400
00000 . 5157621201500000311012479900674057910570000011603100770000034905272370020005/2626424712000725000063170507344701000615774
755964000000000)
v= (15207406611770099009476232203001600 . -21546001003443700000400550712000)

rw-P-VALUES

p	rw-p	TYPE OF DECOMPOSITION
3	1	1

.....

.....

N= -10 D= 11037

A= (-30672120011015003063122205070150027 , -226009757095505478033735791609040)
B= (4704216437006342330030710470007000242036615312661206 , 2007000332054751555957013341061110613061003707120)

J-INVARIANT

J= (-112433507000075570150007601450025277654336602100131770170010072060721360500202376109116000 , -3016070724039004300006711
35700043030070137457700054001714503111270022557520117567000455005005000)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 15 Z.

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

U= (205061500710501467 , -2053406005000)
V= (51061751000400117010064700 , -560600170032002010004700)

PRIME VALUES

P	PRIME	TYPE OF DECOMPOSITION
3	1	1

.....

H-7

.....

X= -5/2 O= 757

A= (-16307300003440176734030877707 , -600713006400753050600175360)
B= (1137000000070202075360071196220070277005066 , 41020000533317911344704400707645422070720)

J-INVARIANT

J= (-10613401712007002106207514470400004366510/7269310003500425900501056704620000 , -2702000102300532776002361250113001942560506
7740616306220003330600100500040300000)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 15 Z.

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

U= (207033117201007 , -000701004500)
V= (000132077000360010000 , -00041515007010700500)

.....

X= -2 O= 13

A= (-1010005000000370 , -31000000041312)
B= (141002000404106700000002 , 303063200001200006070100)

J-INVARIANT

J= (-31206770700424400006251/76754525510642016 , -507007739431221624020570/3320139742000557036)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 15 Z.

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

U= (031013651 , -0065956)
V= (0500064400352 , -350713372300)

.....

H-8

.....

X= 15/2 D= 753

D= (-11500000000(012790822316400240107 , 323622344990675437673340340340)
D= (505742263450276407600761010430037796420191700366 , -1946500750000314604360320004920915199621275120)

J-INvariant

J= (-1001200000032277711404526194739121670071643711906407400/40107500040173020407643634050443571707900000 , 2904272446500037001
609500000727251740005320599746231009791/13712500004750251703460424006202110005322400000)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 15 2.

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

U= (04717201621007 , 10091870011900)
V= (-5761442640076081712000 , 24543667004251510051340)

.....

.....

x= 15 D= 43737

D= (-51142112047375790071821756213870226072 , 62401093635012983785375064000534040)
D= (71850004950132746423440129409601610052378208236301862336 , -10470196361570021182003490637013600013610000435042000)

J- INVARIANT

J= (-503623000629520730117908173627062155217040000471135007900 / 20044001997300127200070960400245122264000 , 506612001300051924700
750001361743420100114094007370014000172003471645000464139440013176320560388400000)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 15 Z.

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

U= (1060001362047051800 , 5534105296001070)
V= (-5009502212600907043320039600 , 20026951039622636017301400)

.....

X= 43/2 D= 3750137

A= (-7010010050370630000032041150625091300517610170373007 , 101200066436319637061000521775023065020210100000)
B= (227500070003770023276074004300003062100050076535471770070052005901001059506250 , -0070370000063003047057947413006105050376200
5004520059530655630100077210120)

J-ISOMORPHISM

J= (-63400047506290001131100075270003733320007000000223000210607076000201047100641051000/137642003170110000030499700004006227042
077160300506724213000000 , 711004007011000017200700110705000720000605756100500070010502050000003607270106041503520/0005003402542542
23125011761000106047503700070053040040020253721000000)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 15 2.

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

U= (39010054276330043551007123 , 2400125163200506117000)
V= (-150017415227002724120173215657101060340 , 04002035025000107200675452859022100)

.....

X= 30 D= 755277

A= (-22607112160760011506187753600047062374200001507 , 5423783760772700057999002027065100042110000)
B= (1134452180002000027020001209065000660105470016320004251601020105675600 , -4707010437044300413006170542030000000365036006317032
020306405163000)

J-INVARIANT

J= (-70200001097275443000024071200001433360200001622271542144535621771056671170/200010973700781607006160753075307834257070017500
4000 , 75327737001607171071200000020530010077510327520410122101071042009030050000537/753300610156506300761200534106959000053753007
0256310350000)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 15 2.

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

U= (69110070010706269979022 , 10003000040706499640)
V= (-0706470039002270533305347902670220 , 10630017331070031652337160096260)

.....

H-13

.....

N= 43 Q= 3916617

Q= (-21069532014445272704001004450012057722602034107510552 , 15156371122200750772064302037526005064032000411120)
Q= (10443763752002720511070527811013045002410742295505000012047259106341029260606 , -000001100501011040000907766652306724200
406165050000300070036210500500000)

J= INVARIANT

J= (-1901130170370027453220502165617557914221701005493000070004294011120430770076300530310/170930656275021009536429365034655790797
041370043507717504000 , 108275016400362101117500614230109400553610025957953104123276610563000106495213600312200/55261009621077010
32173600000200005707096762726207637071704000000)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 7 MOD 15 7.
A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V). HERE IS

U= (28330210120535450212063002 , 9507534533150026616210)
V= (-101104705455107695023045015126700950240 , 51209406156436045300550763421265000)

.....

- 7 -

.....

n= -47 d= 5004855

A= (-26203400070544507171706002000530000010006700171057370264 -14580004215217004200057061657374343532026282364501272)
B= (16450720070764004200007001217205273316440190405057706347076000693301873000300376700 1359951291329775472126309722921444106
76530077006370030191177307004637005707720754)

J- INVARIANT
.....

J= (-10067600333077700600440020000263714223061121510034500000504152100100215445357301522700/4510005710370511073200045795723000
45095400712701107427790102144 -226711004502114040140717772302103700953544007140330006936021650001120672040201506300675017/33
062021763606736473000000950362405300721306615366301099636996706111400)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 15 2.

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

U= { 1052910270001690004011300614 -730012442032300433000000)
V= { 2019944032030760309703716300613229002016 -0561021975319736607281233470530711040)

NU-P-VALUES
.....

p	nu-p	TYPE OF DECOMPOSITION
3	1	0

.....

.....

Z= -79/2 D= 42958

A= (-1204100010151100102220020002000412100300000225700079 -2527573207076430512070004756160000011194116290300000)
B= (214712222110000004000000712000001000100440410000055100001150004002526761003776102 , 241051001100053720501752001000010001
0001007163210071000010100000000100277000)

J-INvariant

J= (-52000011000001012700037700004007100707000070511000004700010000300000002970037003700000100175)79/2110400000076797001010
7970000017012011004000100000000040001004700770000 -17000037001057010117007000706716701200791500000700711104002550141317
00000270761000001001700000000007524763042000007000091007047000917502780204772700670000001007000055167051341110704)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 15 2.

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

U= (1205005700027300051277001051 -26100710041611000047500)
V= (2050751027219573000610004110075701170012 , -121200547644005100005005070000571000000)

mu-P-VALUES

P	mu-P	TYPE OF DECOMPOSITION
3	1	D

.....

.....

N= -09/2 D= 51033

A= (-11117047001440010071000007507043056316075097001120472090 , -111420130563470015010054130500057007004253000257321100)
B= (099000100040330001005010001001000403000291054470120037037052150011777071724700756362 , 67602670109009510250462365062313705105
000475070040700272191320070719230607428416)

J-INvariant

.....

J= (-102100100671743000580010045710793070400000011700007770005040300070610502122100423410550/65671255410047503071065007053004
10000034410004419000442010001004 , -2700071001111470170000370017077011310070305000427001705506100505421000976040007
636176663706704005440000057570000400070037000000397001171023005301707707000)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 13 Z.

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

U= (7337017011000400190070400631 , -204501400400126170397000)
V= (205171753061533040055503707061200512700152 , -025007770004464227654230053300003077100)

NU-P-VALUES

.....

P	NU-P	TYPE OF DECOMPOSITION
5	1	0

.....

.....

R= -17 D= 1007

A= (-24420334406720040027700004300750070044 , -175455440115342002007000407161711944)
B= (481672047244240071554243043301052722010037122504232150752 , 5016544570023200636362120054449544127395044519517201000200)

J-INvariant

J= (-43341700201695305474446207522002367027500490030742024311770205019/23239220651957197160643900341000456422123515004 , -13710
62007444911700154504440000400150441046115005003390054002103323/1306097064106202320370042005444570604722040990046216)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 7 MOD 15 7.

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

U= (302779604003062206 , -9036533277072900)
V= (95620004410261364107934000312 , -1014601207101636737155720600)

Nb-P-VALUES

P	Nb-P	TYPE OF DECOMPOSITION
3	1	0

.....

.....

x = -10/2 D = 195333
a = (-000717957609707004300507100001044004274300790 , -62500763135275639004331043449950015454400)
b = (10437640711395311103751547823454369100970446727509426376519200902 , 20907607039660970400500173005400276153577019217020716303
8007636)

J-INVARIANT
.....

J = (-00051137932040021617000041345557364700001277043440000021110100730/00061126430043397000407109510070223735023106076022676
10877634027043004261274776579403077542915207563047120042000000335357/71450357621001431912500405462404111170756764063316207
100903)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 15 Z.

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

u = (6436075744003070710451 , -2304670037000406420)
v = (20535501640744523566763067173882 , -573100705124512947400553011220)

mu-P-VALUES
.....

P	mu-P	TYPE OF DECOMPOSITION
3	1	0

.....

.....

X= -3/2 D= -39

A= (-550943740975903646371 , -240824752390630267016)
B= (-235040490000755471530064026462 , 3175241057119535140510347607040)

J-INvariant

J= (150170992979560639044662674397/5004063371052400000000000000 , -11017176173342620507220215470367/410010073444511254000000000000)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 15 2.

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

U= (206407736371 , -096003784)
V= (93204094501563500 , -061142103437500)

.....

.....

x= 0 D= 2055
D= (-32200410723002200307011000070 , 601200120022000105100040300)
D= (954430010640200170025000300400720050075002 , -000991200255113001250200350020410040010000)

J-INvariant

J= (-970071124004006722002300761240702300700006707/3217210031002700100470003100420112 , 101010707250063672710000010053104100040500
3101031702010017510010004001000075000000)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 15 2.

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

U= (25450143002131 , 1007250009300)
V= (-17009630002004009300 , 35700033040020020000)

rw-P-VALUES

P	rw-P	TYPE OF DECOMPOSITION
3	1	1

.....

.....

N= 31/2 D= 001931

A= (-2061636200992225210290397571310036012247333275259 953137594621752000241065070040950137082000992)
B= (1210430950000305791353697560794470540211975700370062115484963570950639622 -769723400311663011076270300264005747201176332264
750002170017060090544)

J-INVARIANT

J= (-30100043181090770000000207700000060062529545100000044702300115007176202010117/17731000019740042761614192917904251291136557
64271917423637 12764836334370979500097073306009254306224857911900000772107631173147000002197/62796299134000011404300971236
9500957910000247037375590042551040768)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 15 2.

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

U= (4075007107260953607504151 200073064404450005476)
V= (-682287516346520011721701817970000 506367756691163206033751702000000)

RU-P-VALUES

.....

P	RU-P	TYPE OF DECOMPOSITION
3	1	1

.....

.....

x= 23 D= 255113

A= (-419999931267117930000052012929136000041151064 , 237501303637909562176013737005374404000600)
B= (115406300524762251962953406102434007773400133007620053655100627204200 , -0070067006054073572010957517660705047319977990451166
0952405720304)

J-INvariant

J= (-1602017373603391053302005386365165373331630520014722442704612320162410972654276744006709939200117990072325090030201123435
7543940445110007330612270054704207353220011757046164502000601000512524213/1043205772627043767122407630040327121005041033000043
0000)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 15 7.

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

U= (2797226077991200446050 , 1009700164305167000)
V= (-3203900710060775010026760424704304 , 7027506136706173622302319031600)

WU-P-VALUES

P	WU-P	TYPE OF DECOMPOSITION
3	1	1

.....

.....

X= 61/2 D= 12927913

A= (-12613440634015004960670020472141907151473265136797940421430 , 77366344201070531913084100254076060090642500041265502)
B= (6310951000272406720070010935534021126761611221091500006426354075200532044007946673502 , -5300914230003700364200900375077351
54050032007193507047066000562636704000150700007544)

J-INVARIANT

J= (-270063203907063250000570455743770013017471620073125422702001309436500100677477130461502360005777960775960170171470615013600
714700461001095104879027040234700040012 , 472793042510053750700101064335151471745301500072762015000016652604071070501700000
030256336005/110004570340017160107007027736521000200367076310007105021017542470259030001812)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 15 Z.

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

U= (51700179906072017745701721173 , 1007710400097000730060216)
V= (-5041007761371157952070050170530062276552460 , 1723431625203031030203794606704233300100)

RM-P-VALUES

P	RM-P	TYPE OF DECOMPOSITION
3	1	1

.....

.....

K= 91/2 D= 6983873
a= (-6822000666464837352464084607010410126153337200846606782324000 , 1142078301073828001840461573672373000672106760007017330252
672)
b= (2103700011120001120200041000101420119999109901673410541082460055700437129408277022406703410742 , -5498200004640864022762750
516409431152625179510450407100015407601512005540000009821423744)

J-INvariant

J= (-43462700071241002410001577701731804623010440784200243190621690707724410000013340000007561045003007/40357076200477202757
150017407045119650405150707400027500101171200077121132 , 1001024550700000251671444247400001710001119000000010101705000157
0674720405316340744000736004400069947/1307021210043179342670431700630000357201636436054713661005251112151001269547364220020)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 15 Z.

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

U= (4120212579411910417901792787991 , 600002360494703473160000954)
V= (-7425000220915344019955721000102064200755109060 , 9561257400053070007120000342052002432752020)

Nu-P-VALUES

P	Nu-P	TYPE OF DECOMPOSITION
3	1	1

.....

D= -76/2 Q= 4292
E (.....)

Δ-DEFINITION
.....

F (.....)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 AND 15 2.

A GENERATOR OF THE TORSION GROUP IS THE POINT Q-(11,0). HERE IS

G (.....)

mq-P-VALUES
.....

p	mq-p	TYPE OF DECOMPOSITION
2	1	0

.....

D- - 12 D- 1112004

.....
.....
.....

J- DECOMPOSITION

.....
.....
.....

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

A GENERATOR OF THE TORSION GROUP IS THE POINT Q-(12,0). HERE IS

.....
.....

Q-D VALUES

Q	Q-D	TYPE OF DECOMPOSITION
3	1	0

.....

.....
D = -17 D = 1007
D = { }
D = { }

J- INVARIANTS
.....

J = { } -18710
J = { }

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

A GENERATOR OF THE TORSION GROUP IS THE POINT O-(0,0). HERE IS

O = { }
O = { }

NO-D VALUES
.....

D	NO-D	TYPE OF DECOMPOSITION
2	1	0

.....

.....
D- 10/2 Q- 12000

Q { }
R { }
S { }

J- 120000000
.....

J { }
K { }

THE ISOMORPHISM TYPE OF THE FOLGION GROUP IS 7 AND IS 7.

A GENERATOR OF THE FOLGION GROUP IS THE POINT Q-(U,V). HERE IS

U { }
V { }

MG-P-VALUES
.....

P	MG-P	TYPE OF DECOMPOSITION
1	1	0

.....

.....

g = - 1/2 h = - 20

G = { (0, 0), (1, 1), (2, 4), (3, 9), (4, 16), (5, 25), (6, 36), (7, 49), (8, 64), (9, 81), (10, 100) }

J-Subgroup

J = { (1, 0), (2, 0), (3, 0), (4, 0), (5, 0), (6, 0), (7, 0), (8, 0), (9, 0), (10, 0), (0, 1), (0, 2), (0, 3), (0, 4), (0, 5), (0, 6), (0, 7), (0, 8), (0, 9), (0, 10) }

The isomorphism type of the torsion group is Z/2Z x Z/2Z.

A generator of the torsion group is the point G = (1, 1). Here is

G = { (1, 1), (1, 1) }

.....

D= 24/2 Q= 001000

E: { }
F: { }

J-INVARIANT
.....

G: { }
H: { }

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

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

I: { }
J: { }

mq-p-values
.....

p	mq-p	TYPE OF DECOMPOSITION
3	1	1

.....

.....
 D= 20 Q= 200115
 E= { }
 G= { }

J- INvariants

.....
 J= { }

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 15 2.

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

Q= { }
 R= { }

Wp-P-VALUES

p	Wp-P	TYPE OF DECOMPOSITION
5	1	1

.....

.....

X= 31/2 D= 001953

A= (-2061636244992225218299397571510884012247553025259 , 935157504621352000241065074046950137062090992)
B= (1218430950020309591753607560504470540211075700500062115604963570050630622 , -769725400311642911076270200264005747243176352264
350002170017069000344)

J-INVARIANT
.....

J= (-301000481000907704900302077090130600675795451440009467923001150071762042010117/177521009090740042761610102917004251201156937
6427219174336272 , 322640262343709575064257073306400023430522405791194000097721076311731474040002197/62796289134000011494500971234
9900957910000207087575550042551640760)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 15 Z.

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

U= { 492540719750935360500151 , 204025064444430000476 }
V= { -682207516346320201172175010170700060 , 506567756401165206033731792000000 }

MU-P-VALUES
.....

P	MU-P	TYPE OF DECOMPOSITION
3	1	1

.....

.....

X= 23 0= 295119

A= (-4509900512671179204008052419020134010061151064 , 2173019056379003621760137570053744044040600)
B= (115406120043476335150295306102434037773400133097620098655106627204200 , -9070067006054073373010957317669705047315977599491166
0952405720044)

J-INVARIANT

J= (-1602017375603301453902003516563165372231630520014722442704612524162410977265427674400670303024011753530725325090030201122435
2754304046511400733061227005470430753224011757046164302002601000312924213/1943245772627643767122007620940327121003941913000043
0000)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 15 Z.

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

U= (27972260779012004440634 , 10097401643031670026)
V= (-330340071006077301020740434704304 , 7027506136796178622302313031600)

NU-P-VALUES

P	NU-P	TYPE OF DECOMPOSITION
3	1	1

.....

.....

x= 30 0= 1974175

A= { -437540004514900670061072312024632154002400572027775 , 50703175209145264003004240043619210026254704400 }
B= { 11251344100005123670440006205700777702000599573045550077000027091460226716702 , -1037265460253540000073270014534002007307740
642743512140077200003397403400 }

J-INVARIANT

J= { -74220001342221140764340544302517061262000111071203599412505990010322049543051257407/0120000204173205270754600703141000161265
77616043207000000000 , 1251047032035046130457103526207031107063705402700721506407042600415253043016050310420/4276010031645270724
06943453100050063344700770003114160357001361104 }

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 15 Z.

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

U= (32007069700407177094000771 , 220252032102100771604)
V= (-63573470235647003050400716070050446540 , 07407610744090500300425605704310040)

FM-P-VALUES

P	FM-P	TYPE OF DECOMPOSITION
3	1	1

.....

.....

X= 91/2 D= 65531073

A= (-6022000666464037352466843460501041912615333720582466069792324059 , 114207030105532001369461552672373500672196760007017330252
672)

B= (210379000112000113030004104001014201130991099916731093160246055700037120400277022406703410742 , -5445020369464036022762750
01600573311353217479510450607100015076815120055400003005021423744)

J-INvariant

J= (-6636279029752414086410991577701751304462301046007342400431506216507007234410020013360006024541042082097/44557074300477702737
3500176070051300654400130797420002330001011710000721521152 , 109102455457006062516716644287440363100021139020400108709300157
00747540405331634474600073490649406555471397021210063370346706317006340020307201620343609471546100221112151031305547564230620)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 15 2.

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

U= (41202132579411010417501792737901 , 400200360404703475140030756)
V= (-73250002220315344013055721000102064240553175060 , 0561237460053070007520900242052003432752020)

MU-P-VALUES

P	MU-P	TYPE OF DECOMPOSITION
3	1	1

.....

.....

D- 00 D- 2400171

G: (.....)

J-
.....

G: (.....)

THE IDENTIFICATION TYPE OF THE FOREIGN GROUP IS 2 AND IS 2.

A MEMBER OF THE FOREIGN GROUP IS THE POINT Q-(U.S.). HERE IS

G: (.....)

.....

28

.....

g- 24 G- 250704

G- {)

G- {)

.....

J- 250704

J- {)

J- {)

.....

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

A GENERATOR OF THE TORSION GROUP IS THE POINT $G=(0,0)$. HERE IS

G- {)

G- {)

.....

.....

a- -55/2 b- 122001

c- (.....)

d-
.....

e- (.....)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 19 2.

A GENERATOR OF THE TORSION GROUP IS THE POINT G-(0,0). HERE IS

f- (.....)

.....

.....
D= -1 D= -7
D= { 1000000000 , -0101000000 }
D= { -1000000000000 , -1010000000000 }

J- DECOMPOSITION
.....

J= (-1000001000000/1000000000 , 0000000000/1000000000)

THE DECOMPOSITION TYPE OF THE FIBERION "D" IS 2 AND IS 2.

A GENERATOR OF THE FIBERION GROUP IS THE "D" (U,V). HERE IS

D= { 010000 , -0000 }
D= { 00000000 , -10000000 }

MP-D VALUES
.....

D	MP-D	TYPE OF DECOMPOSITION
0	1	1

.....

.....

D= 17/2 D= 62821

G= { }
G= { }

J- INvariant

G= { }

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

A GENERATOR OF THE TORSION GROUP IS THE POINT G-(1,0). HERE IS

G= { }
G= { }

sp-p-values

p	sp-p	TYPE OF DECOMPOSITION
5	1	0

.....

.....
 N= 07/2 Q= 0001
 E { }
 G { }

↳ ISOMORPHISM

E { }
 G { }

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 7 MOD 15 7.

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

E { }
 G { }

mp-p-VALUES

p	mp-p	TYPE OF DECOMPOSITION
3	1	D

.....

.....

x= 16 q= 57181

A= (-140790005465744405120179611402197400171 , 231754000510200015550016026002977056)
Q= (21520605505072242142041936400000254200520441050016200540842 , -00073213494006460196134136707302152440201244050025044632)

J-INvariant

J= (-3211405321607210117541502504000504025019606613737575360575421/9422636320064532591407071602000000000000000 , 112260229514043520006319067070306313025966730157745040001032642709/3570717550310060140225671059406900400000000000000)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 15 Z.

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

U= (13157456302450572779 , 10357469130305056)
V= (-62553512766126750115472500000 , 209001964910004016322500000)

MU-P-VALUES

P	MU-P	TYPE OF DECOMPOSITION
3	1	0

.....

.....

X= 31 D= 063161

A= (-067100007066700000412000035400707970707634649914456 10751642002655258265710003642060006676621101576)
B= (3197000033000031874704071165136600875900047020041610224663537501970607777161400 -1006419501609007245650710505211294795099977007
90020757506627668260659560)

J-INvariant

J= (-00076600000202000507071006713422007000046520002062004354619064004410120099701/2170026636002260223600907501115520051650020000
000000000 663700277002343000614401007300001960076000132716101000750063695110497052075051/33095193041703490923146306346679976
9571634104675000000000000)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 15 2.

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

Q= (4300740707524603531204726 6002050342540476402754)
V= (-000011327525604574605195209500000000 0675720601500706246101332640000000)

NU-P-VALUES

P	NU-P	TYPE OF DECOMPOSITION
3	1	0

.....

.....

I= 46 D= 4200041

A= (-2360679520222397000095407543500648471534606097060234211 , 147112007021613207054120000405721275396796756050016)
D= (11109040326470000707006260513442073017007151632547595040047057782072112409792906302 , -1270622510000743706705019520555401004
24160000222855500770005415045005093702)

J- INVARIANT

J= (-122070003535100051063452100000104100012027610609504505700060204700506214712310000217361 / 100705150634532400000070716060957771
9367806910500000012500000 , 5001001170100007016450055700011420019029020619936300609160097534201003420619561455356607/15405947
12606006371243005059750272112600409579064530027947753906250000)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 15 2.

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

U= (754495760721757204030648490 , 20069530060020300001006)
V= (-572564822171003029466791602110004062500 , 2001674166520099159011516440637107500)

NU-P-VALUES

P	NU-P	TYPE OF DECOMPOSITION
3	1	D

.....

4-7

.....

B= -06 B= 0000733
 B= (.....)
 B= (.....)

J-10001007

J= (.....)
 J= (.....)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 15 Z.

A GENERATOR OF THE TORSION GROUP IS THE POINT B-(0,0) HERE IS

B= (.....)
 B= (.....)

NO P-VALUES

P	NO. P	TYPE OF DECOMPOSITION
3	1	1

.....

.....

N= 33/2 b= 100355

A= (-21100422103300420161740422500017501377205000619 70101517567177002165700000031103377616300302)
B= (36499124121500007000000142047677320000301720061017300751041003000240042 , -200021042200000701155534000044705072010041641354007
500700044000007064)

J- INVARIANT

J= (-1500030160754706710010705001724054402042654400233000710502375440735735200953/3000360317007040651003750002975300013402103027
000205107040 , 27312401500020000000304300107011723270053533430411750644203403206070036000720/2312016225563005365013402310404102
01344060630411013600449003776)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 15 Z.

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

U= (104530012120013600700001 5370413033170010520)
V= (-02043352057177110046454452507004236 , 00100002037100703710700542503612)

.....

K-10

.....

I= 24 O= 1797

A= (-409951647621637190532931901624576847259 , 3010834076054195797973061150141743904)
B= (42014423047430649541264766100497964904768264167150840910050 , -50450140064206747356334533001730000215610748332506420432)

J= INVARIANT

J= (-227542009620770895107020609407620030956992696122416909943345932295563/19511656364578079219006206337031270701250210749000 ,
620567012570021754064724479792106429572004396009154000632423000090116707700070230540010706165535053707034.0267190040148703104)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 15 Z.

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

U= (9482134057359000059 , 41376811003003704)
V= (-1026400407337167517947037000 , 400501060181516767090006952)

.....

.....

x= 30 b= 2109515

A= (-209510770100010424360326570712271510202761697563704 , 2171220000000117100104520007026311175377591040)
B= (354111271431124074210022000406100001041702410312000070231370035003300360 , -56775405100422001291191236640761760000340720
5000047300077500044002003004)

J-INvariant

J= (-400000006702640006154791740170000021607711541511107543510000000371012700107071/14350442501630005400000400020003105200477
57500044130040 , 610430751151047400041701200700010001201140100000070512107720700000000076430/10426120700000912000170126
07001200000107504300023001000106620)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 15 Z.

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

U= (21007740036750100070074 , 143200407757526000630)
V= (-307750050350000701004400017500000 , 20615275026000952007200001644702464)

.....

z- 93/2 b- 71957908
 A- (-17120072096350959040759409900060427204790523510070086014064650 , 3685716820112372900703420002005170914950008320051257027082)
 B- (004975400094002547701434347400437001909030000360767530291174423000309002031700122072010532142 , -20270022260777004172630900087719011070064020217703779254342402296964440100912599460972666)

J- INVARIANT

J- (-201610770707040217104200713019540071239016094737600109562712100290704423090077067597427013205690033/1410107247445310600013
 097219990042610010100644007160912575401370019540047530 , 42070047070400000000104701410127103300007300240063005422040270002354410
 34703701908400120071604671410627/0052243000094425000770170700217544543957036125006470003007077053271453743425115300)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 15 2.

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

U- (6565120002151211050237542510651 , 60651099023900460009127000)
 V- (-050641063574564527294719430060097503011670156 , 564427512307670619900572551644697990101172)

.....

D= 1/2 D= -7
A= (-2400000 , -310000)
B= (100000000 , 91070000)

J= JORDAN
.....
J= (-10000210000000/610700000 , -003700000000/10005701700)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z AND IS Z.
A GENERATOR OF THE TORSION GROUP IS THE POINT O=(u,v). HERE IS
O= (2221 , 320)
O= (11110 , 20000)

HP-P VALUES

P	HP-P	TYPE OF DECOMPOSITION
5	1	1

D= 1/2

D= 1/2 D= 23
A= (000000000 , -00000000)
B= (100000000000 , -17000000000)

J= JORDAN
.....
J= (-10000000000000/070072000 , -0000000000000/131000000)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z AND IS Z.
A GENERATOR OF THE TORSION GROUP IS THE POINT O=(u,v). HERE IS
O= (0000 , 1000)
O= (-000000 , 00000)

.....

x= 17 b= 75905

A= (-174958857046214468861170950041530675200 , 23907060755392400027597612004300051000)
B= (296302974486420370254473690612254295700115215232271587504320 , -57595061004546621760043140517267070515244100151422010900000)

J-INvariant

J= (-2100863708944761772575702612030905250445232002540304760001055/25732050450022174506612410142940567705177000 , 50203956440060
10775010437453729630694733270713142700219526036615/048423103506113101620720640029020049726064236200)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 7 MOD 15 2.

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

U= (15246125007390004470 , 1700070024469104)
V= (-21095270072000070250050206300 , 0436004044013517662910279160)

mw-P-VALUES

p	mw-p	TYPE OF DECOMPOSITION
3	1	1
5	2/3	0

.....

.....

r = 09/2 b = 5206905

A = (-966076386610760591216504356013003773303127615003766915 , 10742303005310159705200267007521060002064776600530)
B = (1104703647337711200220033335076659753976116312363321064274035005050070795069340430 , -1922411301950290010496165604617660046174013100773116079169560509776005353000040)

J-INvariant

J = (-86170546109655795410446493007078305102217000707440160007026301999062207231692019219505/2309301360540361195456904200040607064
9275430637450295545310053600 , 6300079007300579618216406470682037907569403600322972017548256500000700063520200725560295/20174003
7967113096607567003352130124703007760600762702057000000711000660)

The 15000000th type of the torsion group is 2 mod 15 2.

A generator of the torsion group is the point G=(u,v). Here is

u = (1541213909501721132557600275 , 104736500626370559001036)
v = (-31423630517060041703301620262104264409700 , 1467050276691045706913502209405504024)

mu-p-values

p	mu-p	type of decomposition
3	1	1
5	2/3	0

.....

n= 32 D= 20095

A= (-64240344630747002754063900553152206100020715 , 0027004796640504017039917090710647294100760)
B= (201001951004350635675426013546829011315501353002053740703005042002470 , -4070062750107172030065260447040417014066704164060230
07545600940000)

J-INvariant

J= -12703162601500244279440007007479030335216153211163762754250210007300171000155/10070409541007042502350272100001033023440961001
342007400 , 25410020637667007137600175420415721000053100020137062941567632120555446077001605/1102390313264577322026005004030713002
70794070707735401010044)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 15 Z.

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

U= (37394000551004620390155 , 33045201707062972312)
V= (-3170001374450072015067667550405400 , 23720326701661056303251067416304)

PHI-P-VALUES

P	PHI-P	TYPE OF DECOMPOSITION
3	1	1
5	2/3	0

.....

.....

$x = 79/2$ $\theta = 36956795$

$a = (-66848823564751519545009007631100547988268632916220025603703115, 1723921004734056620110420530070064446363032475300723120)$

$b = (212288307038340300751530126359164626416000119126009556431532047636555590793490020000350521000, -8126631346175521004460907206921067543170292437100201522505151919510922561016795205647760)$

J- INvariants

$J_1 = (-616000107570301010003071606060041100540107291640032967210025640031957500700734022075051300796405/2940652700400200703102220$
 $541900025054002707032227567010065713050071220000, 63327070000470036760022635450167621247000125153004606377610605760630231053957$
 $5640070410093760005752037900331710100027161757570152054200004770026776320165150000419530369560000)$

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS $Z \text{ MOD } 15 Z$.

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

$U = (3009342+2312570651533446979413, 62902104442601071730007476)$
 $V = (-2690383657150190253067060070000703602161310540, 450757037652012450433100943567350576704000)$

NU-P-VALUES

p	$\nu(p)$	TYPE OF DECOMPOSITION
3	1/3	1
5	2/5	0

.....

0- 75.2

0- 0000077

0- (.....)
0- (.....)

J- INFORMATION

0- (.....)
0- (.....)

THE INFORMATION TYPE OF THE FOREIGN GROUP IS 2 AND 15 7.

A MEMBER OF THE FOREIGN GROUP IS THE POINT 0-(0,0). HERE IS

0- (.....)
0- (.....)

I- 2 O- 5
A- (-020015 , 200000)
B- (12070320 , -14001000)

J- INFINITE
.....

J- (-121005/33 , 0)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z AND IS Z

A GENERATOR OF THE TORSION GROUP IS THE POINT O-(a,b). HERE IS

u- (-505 , 264)
v- (11500 , 9076)

mp-p-values
.....

p	mp-p	TYPE OF DECOMPOSITION
5	1	1
5	2/3	0

.....

k= 35/2 D= 1325037

A= (-1200443670010736120000000004212505705205605070000207 , 30022267050506500402777333615017070067007030720)
B= (36330871300430900701005730001300450470161020530700537077010027059704550000 , -250500500773170500655311000445070910020120021
00777150020010026300710040)

J-INvariant

J= (-1010071004732111302630004000000001700551052010040041000217700071540061700036707 / 150005205062576000001067500560002175050300
7004300300401130000 , 35007720037313710731504050070111343037007000106703410400003263000420713070573000273067/15701204530030631601050
052450050055500000173200157024391010037040000)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 15 Z.

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

U= (01033330700073711000027 , 100000000010700342000)
V= (-9305573511212361024300070000050070000 , 0011327071072242302050002710700300)

Ng-P-VALUES

P	Ng-P	TYPE OF DECOMPOSITION
3	1	0

.....

.....

r= 25 D= 350007

A= (-79401226276000799144100000510361016000173234362 , 20451410510063720443936407315063700050005000)
B= (735061718170640514000371063365063701520003150306112150720673210054620 , -440666424324012700057004510267655260777003775000225
0240520602603200)

J-INvariant

J= (-000735007323304006114121200240010400527336400037059017323054450700006457/075206430791595463300550000101526527065164012000000
0 , 1370062007732043104000445412106300795053123203424427070310750431326460563/11770016000473400004750007036109305230001060363
2000000000)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 7 MOD 15 Z.

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

U= (115290617010570116037950 , 33702110643564191050)
V= (-243040557700607006331916337044201600 , 435101250000300022105405140172000)

WD-P-VALUES

P	WD-P	TYPE OF DECOMPOSITION
3	1	0

.....

NY

.....

I= 65/2 D= 16796297

A= (-110417005610753120012661071015000101050017000713000077400307 . 5166044132005070443434030150574607220050001255400615000)
B= (1431604615022012001701550056002500270716431030050002466105673055210020006003057154200200 . -00057576140632060052020042002423
046770020763000013220705077207000054010000101050560)

J- INVARIANT

J= (-50701030000020051707410503005745025200705951073546762706000533004627060300004657017767055236207/62123659430013600467063143000
30000760540010123660000004024000000723000 . 342605505417075361665051233207503400352010012647570700317751533254500056666910026970
120566153520571/366000505406370000702903000600005035117050505244076007337110522362045422000000)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 15 Z.

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

U= (155509725361733031736042029467 . 6640501397669367001625040)
V= (-26304051100016000207006350011011300557253060 . 6010107156002000695530010109700066160220)

PRIME-P-VALUES

P	PRIME-P	TYPE OF DECOMPOSITION
3	1	0

.....

```

.....
x= 00          b= 2430637
a= ( -2349917516500194060007001709326570710604760416072027 , 2332175030050700902561000902033941033170700757000 )
b= ( 1500000371050311427500443012020706409770101723104026071071050077902650400655046 , -206201511175201620000371201633501603207637
790276009576314521272970021626400 )

```

J- INVARIANT

```

j= ( -75137005700151504110070711093403370016511540400047397032227504702200110050037001277/4464002160270304000272734902600202495030
05602500072340032000 , 444053302330775472707290000014200450171970200041364400116440072001001700954500350030513/77067350712062700
400914007031606000105160100036000015241651500000 )

```

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 15 Z.

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

```

u= ( 7007320120071010000001207 , 4513700045700100570000 )
v= ( -2132540600701540120411400032000055120 , 1432436002510461631252401373426060 )

```

mu-P-VALUES

P	MU-P	TYPE OF DECOMPOSITION
3	1	0

.....

.....

x= 95/2 b= 77009537

a= (-27706364106510700900724702960997416651113371007032460100029002907 , 400390972230539001570452000947005763415600020537176104297040)
b= (1794048990010006143010622364007737509320020043100500003700066514142250009007545045901060035112066 , -302700416050490574143064400216104300310431470091052230002000550000400041030409727797933600)

J-INvariant

.....

J= (-301709901645096011452770004206704527700026012032002900290226533730005671123300030090906000102120157227/1570032290960067932042596454430071600460371320275096367500160070043700032000 , 120060199001031700054610001500100102120751032940000040100040120010076103005096733002004116150727667324707017317/0010076596323662174635709540650001066600017009422995061000531005501000033163719600000)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 7 MOD 15 Z.

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

u= (03006300249100904760004147550007 , 723636639954030100700432020)
v= (-204100007105530606454316227300014263777060714300 , 20049457644471202310297564217509540000100260)

MU-P-VALUES

.....

P	MU-P	TYPE OF DECOMPOSITION
3	1	0

.....

.....

D = -90/2 Q = 12622075

a = (-34532222 32222222 71051711 32222222 74275222 70752222 12775222 1222752222 12222222 70222222 12222222 12222222 12222222)
b = (75222222 12222222 75222222 75222222 75222222 75222222 75222222 75222222 75222222 75222222 75222222 75222222)
c = (75222222 75222222 75222222 75222222 75222222 75222222 75222222 75222222 75222222 75222222 75222222 75222222)

J-12622075

J = (-621222 12222222 12222222 12222222 12222222 12222222 12222222 12222222 12222222 12222222 12222222 12222222 12222222)
K = (12222222 12222222 12222222 12222222 12222222 12222222 12222222 12222222 12222222 12222222 12222222 12222222 12222222)
L = (12222222 12222222 12222222 12222222 12222222 12222222 12222222 12222222 12222222 12222222 12222222 12222222 12222222)

The decomposition type of the position group is 2 and 12

A generator of the position group is the point Q=(a,b). Here is

q = (122275222 12222222 12222222 12222222 12222222 12222222 12222222 12222222 12222222 12222222 12222222 12222222 12222222)
r = (12222222 12222222 12222222 12222222 12222222 12222222 12222222 12222222 12222222 12222222 12222222 12222222 12222222)

mq-p value

p	mq-p	type of decomposition
3	1	1

.....

.....

g= 21/2 b= 170055
g= (- 2001701205 7000001207007201200041110010000 , 200001 50001200 051 70001200002201 200001)
b= (100000007000100111000001 0007000000000710010000711000000 , -0001770010500007100070001 70000010001000 70000 7000010000 7000)

J-XXXXXXXX

.....

THE ISOMORPHISM TYPE OF THE POSITION GROUP IS Z x Z x Z

A GENERATOR OF THE POSITION GROUP IS THE POINT G=(u,v) HERE IS

g= (0000120720000700070 , 0000120007170700)
b= (1110300001070000011022001000 , 12100000010700000000001000)

.....

D- 51/2

D- 620000

0- (.....)
0- (.....)

J- 2000000

J- (.....)
J- (.....)

THE IDENTIFICATION TYPE OF THE POSITION GROUP IS 7 AND IS 7.

A GENERATOR OF THE POSITION GROUP IS THE POINT 0-(0,0). HERE IS

0- (.....)
0- (.....)

.....

K 9

.....

r= 10 b= 95001

a= (-82700650507341574650535310005003400050 , 1062035541550067000205370470752537520)
b= (113474905251200741011364450012122651640004016512310230702510 , -10506274000770500073547300719453609223397610200041733224)

J= INARIANT
.....

j= (-4055173090370017901353507456057404103074605772020016301146223/216030011137009067476103107400410400230239960 , 367270531411
5103093614210073670573503230257175040713630032506128/377366022082712770100722042540554010337626004300)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 15 2.

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

u= (11471660632000074479 , 10016795169120136)
v= (-40031200060636400640091099524 , 146907057204053060905097500)

.....

.....

x- 51/2 b- 6226993

a- (-090160743600420052010100577119463646716023005347347339 , 44270002143516071332241600000435065575647603770502)
b- (110007633332790006112350077950004500114526103456326559100453266012170314400625470 , -1710714079750000306150060570336006125513
7769002000764202642109560001040430136)

J- ISOMORPHISM

J- (-265200606300603526950676072026551064760204444256130000473129004560550477430605037051013 / 055022004000552127032567415041500200
064270300132110427564444651000 , 500047315612000450247260007622511135951304690956302069156426200150631762260610977361156501 / 010417
25542640756650190035537635575610240700043507530760042064013127624)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 15 Z.

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

u- (293444430303650710576779550 , 10956542220006700333000)
v- (-303101077933600706400009311200003200004 , 1501522001013206100011562712796251500)

.....

.....

Z- 55 D- 1115155

A- (-03941065051641607552040064702002570002700507544 , 10002642190205516044752603700420200251256000)
B- (90070750225020000610703057000141700041520551012625475770033005470012 , -25041007057573665517046720003000175045171003064
2705756007157000531156)

J- [MATH] MOD

J- (-36426210674700542275070067663760315001672122006555212054232753275005341002005/5100600745075007530723510035700363401057244201
050202020 , 4110575202500610556160040494450206057400760012764109775600775091200750470061709/0000000034552705312100305417402354760
57412454000021700600700)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 15 Z

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

Q- (1361095000520410605747206 , 130632606045126000754)
U- (-660225420063625751568741517615726502 , 670074010770006006007547125622720)

.....

I= 01/2 0= 40000753

A= (-1071507471040044101200226336020540044561526095000275200700130 , 40700370700600720022014700602903732300534024296251000052)
0= (000113063037015005470000719071500705007000017167700107343295010005716075016000507504200010 , -327702700105350120320770020001
010210900712070116000657500004200054317521695004766056)

J= 10001001

J= (-130501100675442000005276077300561754116205007251600250105007600016003547101254757349542262921001273/67000477242002072070000763
6605005515075002200000170075022014364293171011000 , 367761000701700215050224220000000070016111200570000401031303770057755007700200
6550307115000033201050/2170000001550575750022070037730107200005004757007575110130525001720000110104052)

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

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

U= (670007000000075140570003300 , 00000007000270070170000)
V= (-17700277017220000320720101275422100200017000 , 2000707027727600705100121523004500472300)

.....

.....

x= 00 0= 5005213

A= (-11240211188751821099961704510020134229522115451040630 , 6900005777337015017700032500010165067055012070000)
B= (105005000004588310026390356900777014013710310035030000000106044631020150502900 , -1257950605027000005000600503560306340766
60000434831307317054573936507510620)

J= INVARIANT

J= (-23071633774004047762161350519301610613667576632970025541304047620070042070460223242043/1075040356320763735030715642070027521
5300433545631331440127600 , 951347500072260751563754273173703701061060006039532020700407447001007317009700000473550/074060035405
6412072000615011005304041307765301450014200704700060544)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 15 2.

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

U= { 140001010005400000110140030 , 5637500700121020172016 }
V= { -37632575716100030440306373670117120224 , 203735787064105122066046651072542000 }

.....

.....
 n= 29 b= 15000
 G= (.....)
 G= (.....)

J-DECOMPOSITION

G= (.....)

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

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(u,v) WHERE IS

Q= (.....)
 Q= (.....)

Wp-P VALUES

p	Wp-P	TYPE OF DECOMPOSITION
2	1	0

.....

0-0

.....

D- 11 Q- 11001
A- (.....)
B- (.....)

J- (.....)

K- (.....)

The decomposition type of the position group is 2 and 12.

A generator of the position group is the point Q=(4,9). Here is

Q- (.....)
P- (.....)

My-P values

P	My-P	Type of decomposition
3	1	1

.....

.....
 n= 37/2 D= 1007004
 G= (.....)
 G= (.....)

J= 100000000

 J= (.....)

THE ISOMORPHISM TYPE OF THE TORUSION GROUP IS 2 AND IS 2.

A GENERATOR OF THE TORUSION GROUP IS THE POINT G-(u,v). HERE IS

G: (.....)

.....
 Gp-P-VALUES

p	Gp-P	TYPE OF DECOMPOSITION
3	1	1

.....

.....

r= 37/2 b= 1667001

a= (-0106047323451304160229576290753110170010103372211 , 213500070675020040997904001550634422951601775064)
b= (027200032007179500576445077507901542000137507507630003726320477244702004302 , -340301742575065490250207040551501000712115034
5310424032009570140012704168)

J- INVARIANT

J= (-1170220790414453859320704907010265017063402020009532901041266020123353740067510333/42474623116139077037700674612355715020054
045242016000000000000 , 107700065362050740040132006046416430652775759504306327660010540007147570400022361377/1902199194004060104
5446140554103040692655360304707137101250000000000)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 7 MOD 15 7.

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

B= (100074021062614000023420 , 21100107640112070000)
B= (-3204706345009575275455140440012500 , 10541131001425033176160700524607500)

NU-P-VALUES

p	nu-p	TYPE OF DECOMPOSITION
3	1	1

.....

E- 57/2 D- 1008201

A- (-2998610920005020049030752400500005000004300702002+534751 , 12766204007200010407323070067712531000510401504120550004)
B- (6305041207740001100710002109500205000411670117004404334551173347620050215730050613105542 , -60204000101517255231054320066230
000000150000770572011042504014241016020775005302200)

J- [000]001

J- (-02000100001000500110011205200004700355750700412043000004756091076520020004012002000201607000/007007634063120420000700047
0001110063271050458795702270051000000000000 , 577016300105700010001100001070761007000270041310100652007067615770050716520315
220016014205405301/2712072503767007004133730723070041523351000040001007013371110652705000000000000)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 15 7.

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

U- (25001032001077000173030043100 , 0002700476003007050544)
V- (-541170004710200445000012109500076407037500 , 13120013000072055002109152060131007012500)

W-P-VALUES

P	W-P	TYPE OF DECOMPOSITION
3	1	1

.....

.....

t= 41 0= 2606401
A= (-0439130606599022004434130623700444543950523013342936 , 776773094065404309700292010600361747005043160606)
B= (300940070623770070057700045600730912157266275205410100221210576107000277100037560 , -4119041707003233406151027001217017457063
7760007754752427652331124754101472400)

J- INVARIANT

J= (-03451750750747577130256077090615000157005571300400051402517013064456240267275150363/340243157472360023577030930026052460006
295901104000000000000 , 1776400727616423040700025420004643070306065609400434063242683334006195230320505460191000/223519113213000
2507700501303266390496246026305155710400000000000000)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 15 2.

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

U= (051307011603045375600432066 , 73070403257052510354474)
V= (-3053021021055061006017600315000000000 , 1940074027020340064000003911600000000)

NU-P-VALUES

p	nu-p	TYPE OF DECOMPOSITION
3	1	1

.....

.....

x= 07/2 b= 04097561

A= (-54012751000540156531677160223200760222125445311104095009634560051 , 75620366010244200257950049540002770995211547520005042544
0100)

B= (0072002220176428207164630101264700770210059135507391602314946306212040031791152960071496000157902 , -102176400120560615009112
770093434491061009504709426152660115470007390006700060140305245253200)

J- INVARIANT

J= (-27213777906347907563064570000047374540420015421356457235367610070063333046020024607409735562157200042253 / 1054764456371501090
03531234005153105127007011020130272763901016000000000000 , 10502344300654414056230340000070243620201345001007831706396742449
5450270400410330002327166451151433965070003 / 1079002122752467054703607566350106006409671406654322546756070004003524250000000000
00)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 15 2.

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

U= (110200511670134233550153100004039 , 9535762500367252253006344)
V= (-333005110754620440747154401360000007454227002500 , 3357173341650757023633115655401036005037500)

rw-P-VALUES

P	rw-P	TYPE OF DECOMPOSITION
5	1	1

.....

.....

D- 20 D- 1771013

D- (.....)
D- (.....)

J- (.....)

J- (.....)
J- (.....)

The isomorphism type of the torsion group is $2 \times 2 \times 2$.

A generator of the torsion group is the point $Q = (u, v)$. Here is

Q: (.....)
Q: (.....)

.....

.....

W- 3772 D- 1120000

W- { }
D- { }

J-
.....

W- { }
D- { }

The compression type of the position group is 2 and 12

A description of the position group is the point O-(0,0). Now is

W- { }
D- { }

.....

.....

$a = -21$ $b = 1997$

$G = (1997, 1997)$

$G = (1997, 1997)$

J-GENERATOR

.....

$G = (1997, 1997)$

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

A GENERATOR OF THE TORSION GROUP IS THE POINT $G = (19, 9)$ HERE IS

$G = (19, 9)$

$G = (19, 9)$

.....

.....
D- 27/2 D- 000013
D- (.....)
D- (.....)

J-
J- (.....)
J- (.....)

THE ISOMORPHISM TYPE OF THE TORUSION GROUP IS Z MOD 13 Z.

A GENERATOR OF THE TORUSION GROUP IS THE POINT Q-(2,9). HERE IS

Q: (.....)
Q: (.....)

.....

.....

x= 10 D= 116758

A= (-7900171025014025447957900007775703221000444 , 7103453591071410004733157017356300307040)
B= (0004100707130017247904950213222403005553210251100361005402901952 , -11220001000290760000141100043400044350750200401904295300
17056)

J- INVARIANT

J= (-1074109040044790000713342290015012904417622210704040700310507360510/454000347700229059610011627720870007000320211004 , 11041
01010013525164004207363700042700613547100707106636301300000737107/35013402357007002117231151081363176764120037055006432)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 15 2.

A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(u,v). HERE IS

u= (105436409300512000246 , 014641200506700902)
v= (-32031002795900412000577;70704400 , 109000435400420002063900095160)

RM-P-VALUES

P	RM-P	TYPE OF DECOMPOSITION
3	1	0

.....

.....

N= 34 D= 1236773

A= (-11341004009900591634754213744060027936073290699 , 10497610601725005710074270630500000404301750000)
B= (471083722954544006077932673436315044516247754099426220603374009910125701070 , -1135992200057600076606027514701425207634141409
42654390096095460163124104)

J-INVARIANT

J= (-67146400043645110004470700953407309525332679126044257645100000791637763027620000 / 000033962102070099949630213203545990545031
340003021263024 , 3016046764116596073591071691317993140012112207514094067444044339716321091150471209 / 4456593464709960441126630396
79524030421195004310633953200347134)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 15 2.

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

U= (50000010102130790005710 , 310120750126700067000)
V= (-4501001002730000646023974100700362732 , 4311442304651333300630334150101036)

RM-P-VALUES

P	RM-P	TYPE OF DECOMPOSITION
3	1	0

.....

.....

$x = 83/2$ $Q = 45147553$

$A = (-33645405437040702136014300027406537100640100270040644169200399 , 7469066092154029532553450007000014471260001076014000033952)$

$B = (2399004135307930703121142901507440100037996546127613000000026547234101004330002399510093450100 , -7007950067010640179003706179602657000002700905030774000762441545510004472994440013020076)$

J-INVARIANT

$J = (-1109320054451237650746000054753462007007003632630076007303004112227500320075495446075225440009345276/4195650636650300007305707136500511076440060074370001100700270100790005413064 , 63126363643600297093200049630005532707000004024471050076144474430154070919471300050214074943095311590271/270010102219522276006179540762033562436465707132720202111506003041304095500724505024)$

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 15 2.

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

$U = (90290007130000575000130001310 , 12067002600001031275452)$

$V = (-0520195611014236450040070670756100400495172 , 1323005079361410346600026777722000274135124)$

MU-P-VALUES

P	MU-P	TYPE OF DECOMPOSITION
3	1	0

.....

.....

n= 49 D= 9327900

A= (-20542116280689762783209160000001001030043431572902575700 , 1326277710000143212011130400130017700076095370010000)
D= (10670001291061873205102331121000000007961564750523453210031720007333023651551073402432 , -146774602165006095020127209760705223
5472*0005190454642249070645016220710624005056)

J-INVARIANT

J= (-1731000640000014255000432070000129200754775627906306103072515751400331340161220000707500, 3000063007370040506620555063010000
042370002290170415050063000340 , 201710400040900756374110417901371070750510115060434024103094040930500040034035460637000100107063
1040065513610630760307604454470001060034131060630200234400756300620)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 15 Z.

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

U= (0340000300200767843647091200 , 204640917004210000014022)
V= (-20542116280689762783209160000001001030043431572902575700 , 1326277710000143212011130400130017700076095370010000)

MU-P-VALUES

P	MU-P	TYPE OF DECOMPOSITION
3	1	0

.....