



.....

I = -67/2      D = 7056251261

a = ( -7504407100776005007101047754523612700004003704267537011 , -17610070193740050051112700500201500700740978004957004 )  
b = ( 50030075700071002377517011511775000000517700470001201114227033100220506570150750102 , 510005075320061203711803710006171  
507600430109000000750150430000004075451030658120 )

J-INVARIANT

J = ( 10281744711095417500601212010617006001009200572620030212030200400020020500067353020516017670517631502701104470655617120026000  
50760061201000000000000000 , 0 )

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 16 2.

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

u = ( 205326007125123010765471007150 , 100643636255035575105406 )  
v = ( -0611009044145000617722103000004000750000 , 510106065701000000410000612136250000 )

W-P-VALUES

p	w-p	TYPE OF DECOMPOSITION
3	1	1

.....

.....

X= -20                    D= 2107305

A= ( -273679016016317067060007515713611597707 , -15038047264800028007751306170007016 )  
B= ( 55100060004150072570364006412008330519650307566400760753710 , 00071070300450743647590621640007500251659004006637020 )

J-INVARIANT  
-----

J= ( 33790610504506065602110016017012501705063700417031700600776641 / 0003000902760650020710752120025006995200 , 0 )

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 16 2.

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

U= ( 5015107542100000663 , 000161711037100 )  
V= ( -133615019501296000115440160 , 0164300510627095000500 )

.....

.....

V= -31/2      Q= 335265

A= ( -137613499779922999799910002349011633199911001997    -31295135437172667400764169914599063610273160 )  
B= ( 6390737310875040014463224796615420000375004327495701233443051000010134    211634136364690401463009070104275791453501533223  
371006314006000000 )

J= INVARIANT

J= ( 13961441366775300605637956270746302643642991099001044354053330493601441/9940037994906858473097011104003076605210001300467200  
. 0 )

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 16 Z.

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

Q= ( 6700070044145000930990    791300526102070760 )  
V= ( -174455020003900716637000951571300    2077016400364427024736060757600 )

.....

I= -15

I= -15      Q= 6413005

A= ( -3061034000117360991364090636614739000    -1003309577773644221130517171000 )  
B= ( 35737201007677023661609579005730270104540079069360000    203015077219456400046006395145060570400061775032000 )

J= INVARIANT

J= ( 01290211201046387206372532952957367238570003072905761/4551399950607520300430423060570040000    0 )

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 16 Z.

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

Q= ( 250770004910006390    72122369993070 )  
V= ( -1460024110012720000704000    5691700956063625472000 )

.....

.....

X= -3                    D= -15  
A= ( 40462000 , 73770200 )  
B= ( -1031095095776 , -650051602240 )

J-INvariant  
.....

J= ( 1023007723080/020072000 , 0 )

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 16 Z.

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

U= ( 27200 , -2602 )  
V= ( 3753120 , -897664 )

.....

X= -5/2

D= -455

A= ( -20275465364167 , -120990122710400 )  
B= ( 2027546536416753109011750 , -20471509505311300446000 )

J-INvariant  
.....

J= ( -2024056020964562916401/55490908803029760000 , 0 )

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 16 Z.

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

U= ( 404432513 , -2030360 )  
V= ( 11350002326000 , -132006446000 )

Wp-P-VALUES  
.....

p	Wp-P	TYPE OF DECOMPOSITION
3	1	0

.....

.....

I= 11            D= 3462705

A= ( -160043476770004001134104670000005432    -10621107000171126170700040005112 )  
B= ( 206117007015774600405100610490012900470716007374250176    537520111002001040061004677301023110211121006504420 )

J-INvariant

J= ( 535727353670216370004076209500799912705605100631601/32000009554164242690702010260427200 . 0 )

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 16 2.

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

U= ( 21010043000002102    11070067047000 )  
V= ( 2440160000700112001750    120081201657002206076 )

WU-P-VALUES

P	WU-P	TYPE OF DECOMPOSITION
3	1	0

.....

.....

S= 01/2            Q= 766107705

Q= ( -300167001007003067700277001546106477420641477064002067    -10003424463291477104750321062279932776006342244 )  
Q= ( 1524410044770761842004111104301961043095050630734750406170297074001722106454    , 7707350125081000477702064615465100634365  
30030270007771000610513051705042 )

J-INvariant  
.....

J= ( 2019992063220347163277600764110177275374007661074500000645110626004002729400161/120007444417570100950122604702260444634661506  
0516075040000 , 0 )

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 16 Z.

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

Q= ( 42330000002770107306743002    73011099002770070522 )  
Q= ( 00002770051000023751007006450001000    , 75416300701074750000540027519152 )

NO-P-VALUES  
.....

P	NO-P	TYPE OF DECOMPOSITION
5	1	1

.....

.....

n= 30                    b= 3000005

a= ( -77424739760961721111010009999640000014075 , -2040174206071204757510000411121721100 )  
b= ( 71975000332141170111507269164627500015001191000770007005727750 , 2037410625500706700251216320954610045765300070002172206000 )

J= 10001007

J= ( 91600041201155900347662327704425201064050045005765531099040645477121/120111007024500000706023043210476761066200000 , 0 )

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 16 Z.

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

U= ( 15943317671670540167975 , 20448450670000300 )  
V= ( 1220000070717577211066070000 , 170214759061650065004022000 )

.....



.....

K= 77/2      D= 3151108345

A= ( -14623443003543000421083703214029022604021125974294325103430787 , -134851504465553325104520090292079102000775059456006443016 )

B= ( 7000000051077000000707000522150331220000500410276403070536013027005366350930051509456654 , 9594670530100400121427944257030413906054101063447665790100236730227920169344000400400 )

J-INvariant

J= ( 120063022440570700104557000026040047075295534733533073113760175760030636006006041177750201/545395346410055399377004660609002911736503404065122214323130685300 , 0 )

A POINT OF ORDER 16 IS O-(U,V). HERE IS

U= ( 7051304012557755416057250512243 32079940136004504570300 )  
V= ( 3207461012954223621129104563200136641044560 , 5009419730007251454630426302007707936 )

THE ORDER OF THE TORSION GROUP IS AT MOST 32.

rw-P-VALUES

P	rw-P	TYPE OF DECOMPOSITION
3	1	0

.....

.....

K= 07                    D= 250095665

A= { -202414340061994207450073100007072064173199156510747000952    -78637006075422312014056070412681333440854970002000 )  
B= { 10779573114511700020007001110457277906046007220934124170430023007020113646122406    7144009505421444021150172004730041204  
63202344040500706142169550700044207670000 )

J-INvariant

J= { 495907005050403409999350022794060095704422421903400930919300061251030873675407361/6203421113600071512695105107000169765028001  
10093411200 . 0 )

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 16 Z.

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

U= { 970007050071420727036411142    12600760002764295701174 )  
V= { 02766050612400515227640622122123919360    5750050549040640001034107316330006 )

rw-P-VALUES

P	rw-P	TYPE OF DECOMPOSITION
3	1	0

.....

.....

E = -30                    D = 0204106

A = ( -10651904860917101320160061879070001406159795442427 , -27512900210700366528790000150606229700421000 )  
B = ( 106400650725477047153040067501000363647066220215768200036910312632589465046 , 222030000125076572095022106096655404700201311  
7002007006410000470500760 )

J-INFORMATION

J = ( 329616370090011526366750145200404070020060570075473670072956216305000060100001 / 296001477642033700432320475556065163604704000  
00000 , 0 )

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 16 2.

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

U = ( 000148221259004996300547 , 00000730965025757000 )  
V = ( -107531670004220047100000016276000 , 60527067000470017010002147000 )

.....

.....

$n = -05/2$        $D = 262310112265$   
 $u = ( -30075124920064071676260070014364520442247794619000104170100747 , -20247595030012454053402405132340116061546720154420906344 )$   
 $v = ( 200720774410000411057050000210141254716004042004612620063402000260200227000017061730624654 , 202707020077640045000000640175110000150000402251620007420704166301500071170011005112 )$

J-INvariant  
.....

$J = ( 20000022010511000015144215022000427070760000115732000365260953600752616012475277726503325201 / 76001630050047161044407505020257306725772170513401401006000640000 , 0 )$

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 16 2.

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

$u = ( 1000331040270047130400007000 , 0722009100000061760000 )$   
 $v = ( -4705469612067411370520027077771:04051900000 , 02206151270620040002700005160120116704 )$

W-P-VALUES  
.....

P	W-P	TYPE OF DECOMPOSITION
5	1	0

.....

.....

A- 55                    B- 40223337

A- ( -7227376130070074222701300700362073510170700063032    -6990371339041000000000700716070010411337000 )  
B- ( 70001305007101300707170175370003640707204037000071131496016069007704    , 100403020013071161703503310163400063441729117070  
70007537533070306000 )

J-10001007

J- ( 1725010010050702115713070429314290271731510072950000060704220751570013021/1050100302202600750407010675007026450000372000000  
0 )

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

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

Q- ( 1931120300317000300036430    , 753217276002070000 )  
Q- ( -507117541001057205007123406105600    , 0237000065401633390664200320 )

.....





.....

X= -3/2            D= 103  
A= ( 4970701293 , -497060064 )  
B= ( 144185470412006 , -14464182300672 )

J-INvariant  
.....

J= ( 1005007723009/430072000 , 0 )

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 16 Z.

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

Q= ( -0793 , 900 )  
V= ( -0551120 , 447520 )

.....

X= -1/2

D= -15

A= ( 272155 , 0 )  
B= ( 41170074 , 0 )

J-INvariant  
.....

J= ( 1025007723009/430072000 , 0 )

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 16 Z.

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

Q= ( 3 , -144 )  
V= ( -6400 , -432 )

.....





.....

n= 21                    g= 123452005

h= { -21605240043000360000041627101506567425752 , -42019395702167001540010100472644200012 }  
Q= { 103140001207507162500050130721160012710740117300500051002506554 , 177940000763033110031266317771520707000755175304207000  
00256 }

J-INFORMATION  
-----

J= ( 2500015234757736403037260043667231502902600520510010051077036001/001007400575216670014021120390563042060000 , 0 )

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 16 Z.

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

Q= ( 410327341752647166910 , 1700400000019110 )  
V= ( 200000012000560077006467002000 , 2510117000000537000006360 )

.....



.....

X= 39                    D= 4296296321

A= { -1004053060832212759990647000027370197003073007356076    -70022044560718700168363004091007410723046504 }  
B= { 400421902900220447001424013601740636001907290037034577077563999116275315392    4624400290040006910070240483720073731064426  
6320016000172018306210142520 }

J-INvariant

-----

J= ( 70046775702006000070223152544110020503700290006445019003649706330701630641601/1035450605040947600339907337746904060000000000  
00000 , 0 )

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 16 Z.

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

U= { 5004000091000077554353974    221000010000004304 }  
V= { 7547322545300406400100909000000    11500000010050330370060000000 }

.....

.....

I= 95/2      0= 96329676005

A= ( -10950573990003630433976272521176205431136095447202042267711150675 , -10195227910829500630010976487591101995108043373791710076000 )  
B= ( 1221010900029000099194900121567616400033009000003470675 , 72046202671136694240500002073211902001750 , 269530515307196002176065439953630919655271107101010425040007326532540025791063395702102000 )

J- INVARIANT

J= ( 22000700020000517510001000760016732912907352596005533064027075199534001130202334005611203343041/2044310401400604075293330340439570050012167300744176033244710071040000 , 0 )

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 16 2.

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

U= ( 10797342246214200044009733309715 , 12610649246465799010757520 )  
V= ( 20175205732000791036220446029043020573234000 , 77629524460990061089053503001064050000 )

NU-P-VALUES

P	NU-P	TYPE OF DECOMPOSITION
3	1	1

.....

D-1

.....

$x = -99/2$        $b = 888648649$   
 $A = (-1200180840067537618626754204707901866211407100607791447001251027, -16426767107000610004003762001002715701657106423164650674, 0)$   
 $B = (1401115720007500000111000000400004110700010100010677070914000951257527500097072301010006526, 1204071600000706447000095, 129164533370002635207500001170004000704111005000759107200)$

J-10001007

$J = (2704074000000051711040100071001672701200735290604553064627075190536061190202334009611243343041/206431040140040007525330360, 4537075001216750076617000124071007100000, 0)$

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 16 Z.

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

$U = (1000723423027500767447050200407, 1172413117165220003375060)$   
 $G = (-75112050043120750600756275437136000017200, 2610072500000754900047566252160053656)$

WU-P-VALUES

P	WU-P	TYPE OF DECOMPOSITION
3	1	D

.....



.....

S= -65/2      D= 50400104705

A= ( -0400047543012109472170470541270000005430070500007300422075    -24410271099064021602715012110617252005070765040422000 )  
B= ( 1125102100402751217205723000470002202017540115475430132479527810100500010001275442520750    41400034494000010051204701200725  
000074061705541700107070176400070532067550000000 )

J-INvariant

J= ( 227017260209350701454340062071024047301041047010515400300140000606931615100005002721/2463205302027200790100001516029600072  
25201756529036400706740000    0 )

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 16 Z.

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

U= ( 1776053376400400100500157995    23042540190004360052720 )  
V= ( -2504255021505420004270005342967061262000    90304256540001540010065046526702000 )

WU-P VALUES

P	WU-P	TYPE OF DECOMPOSITION
3	1	D

.....



D-8

.....

x = -23                    b = 102037945

a = ( -5470004440070012942000400554073657001707706712 , -50000757620500600610679075070050170706300 )  
b = ( 70102427707000276001444634467500476002570027071775250006700595521216 , 1000700021117099956610001302314466036306271505901370047007647560 )

J-INVARIANT

J = ( 25000135234757756403937260048667231502000402720510010051077034001/091007400575216670914021120339550304206000 , 0 )

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 16 Z.

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

u = ( 33007727711639470495142 , 13017752700107642 )  
v = ( -5700630564061732000077057200000 , 5641500002600000009546512120 )

.....



.....

I= 1/2            D= 1105  
B= ( -1051773100972607 , -24734510007000 )  
C= ( 2416363105004051572600434 , 6644037615726070990044 )

J-INvariant  
-----

J= ( -2036956020564562516641/15459500343039760000 , 0 )

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 16 Z.

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

U= ( 12467363 , 336630 )  
V= ( 200001273600 , 60076621104 )

NO-P-VALUES  
-----

P	NO-P	TYPE OF DECOMPOSITION
3	1	0

.....

I= 1

I= 1            D= 105  
B= ( 21020167000 , 2272201600 )  
C= ( 6317071637000516 , 346134669057024 )

J-INvariant  
-----

J= ( 1023007723009/320972000 , 0 )

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 16 Z.

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

U= ( 60700 , 30700 )  
V= ( 9477000 , 70573616 )

.....

U-7

.....

X= 75/2      D= 361360

D= { -1279964491279607424000463000073443399547, -2110752208209590363441062367965418400 }  
D= { 1077000751345071%10000716347%3054290013040910143400077304016, 61117000181769490475095212790026322732110000417676660000 }

J-INvariant

J= ( 440000436407052770000453410467070005304007617582014027650026714170001/900032277103420764177036000226370690250110400000000, 0 )

A POINT OF ORDER 16 IS O-(U,V). HERE IS

U= { 206362174207051061543, 26534300019902100 }  
V= { 1360071520323270427902762000, 21957062500063000610430000 }

THE ORDER OF THE TORSION GROUP IS AT MOST 32.

mu-p-VALUES

p	mu-p	TYPE OF DECOMPOSITION
3	1	0

.....

X= 13      D= 0766545

D= { -22102770300010094127210900079001706132, -1104702796100340401764010605717004 }  
D= { 405141231940160061257506397754205007000130025672643776, 3001270187601054354105700450316409079321560563214403000 }

J-INvariant

J= ( 0129021120100655720637232329529575367233790003972005761/455107999607520100030427060579040000, 0 )

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 16 Z.

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

U= { 27100440736013740000, 700000294670000 }  
V= { 60741431370000057750000000, 207023427000417000720416 }

.....

.....

Z= 43/2      D= 007540000

D= { -22013470007007000407427004714520070457734701247107051 , -21000024707147001341071057004407047005027077000 }  
D= { 1847715411000104710700000711011121202074072104319079941310001504010400040000 , 101571263400200010400170441004004000000  
210000212004000071100577704200704016 }

J-INvariant  
.....

J= { 2195000770400170010195441000200710000071000401044000056041011127000957090710001 / 51540061212043016100244403112309904904400100  
000000000000 , 0 }

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 16 Z.

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

O= { 0730072370400004600040000 431000206340010000712 }  
V= { 2543577540001431204249042004301470000 , 20401117000722907540100000750000 }

HP-P-VALUES  
.....

P	HP-P	TYPE OF DECOMPOSITION
3	1	0

.....

D-9

.....

E= 31                    D= 45900041

A= { -441707143430400131010070702004201043001175500002    -422710750000117715000000010440439700120500 }  
B= { 4507043014100075420270207012000071121043000200700270410000120315705017170 . 025904070100709900317030706420000275000043270  
00125100007131343460120 }

J-INvariant

J= { 1725010010090702115713070425014200271731510072550000607042207515700915021/105010000220260070007010675007036450006372000000 .  
0 }

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 16 Z.

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

D= { 100700710221004200700702    701601042000071400 }  
V= { 101270400051022073400007134000 . 025771104770511006114212372000 }

.....

T= 75/2

D= 296304377105

A= ( -33105742549505752906072557600263636000122200100071000250319547 , -30427709955256000040610100360000617649127250295994000060

B= ( 3370000014762100046106414721227091004700433169520030547340902973064070030044546526526430632210 , 319992902005241942150109097  
544352942950120031607206446321600601303914302622499545200 )

J-INvariant

J= ( 39090013010511000013144219022000427970764020311573290336526953600752616012475277726503325201/7609163005004716104400503029257  
306472377217051300100103600064000 , 0 )

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 16 Z.

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

U= ( 10515363070042430415903142730400 , 004113290722264046300776 )  
V= ( 554815000215706000513070420714574625705000 , 10102053100150627550041707220510272452 )

mw-P-VALUES

P	mw-P	TYPE OF DECOMPOSITION
3	1	0

.....

T= 48                    Q= 9000004

A= ( -1000000700200445105221700700002287543270020020012    -14110194753005126430001304205147500430010740 )  
B= ( 4017002007127700448054057152443371100007007470150425015171070516245034700    6205042021477200072750525030054200516544202020  
76667075364700000704000 )

J-INvariant

J= ( 325616370000011536364750145200400070029940570073475673072956216305000040100001 / 2060014776624337004323204755550065165604704000  
00000 , 0 )

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 16 Z.

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

U= ( 5054200750020920000000    4009775020523763000 )  
V= ( 120211754163352000477540012570000    430060200204632004007104000120 )

.....



.....

X= .00                    D= 230095345

D= ( -10010005 7072250705 200914001 300101027700100330004007753    -2001421007545360702 7016107000754107007070000624 )  
D= ( 11707140000 70310001700 700 70 732-70643051 3002-004902754000347007 70656707015033024    , 5071706157032054102753601574252000530007005  
160600706430700071000064972032 )

J-INvariant  
-----

J= ( 40950700750000343000350022704060005700422431503000050015540061251030373675007361 / 62036211115600071532605105107000160705023007  
30093411000 , 0 )

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 16 2.

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

Q= ( 100060103360603554000413700 , 253701011040015630070 )  
V= ( -20070753305775400700700516305674200 , 15423366416500000521050539536304 )

WU-P-VALUES  
-----

P	WU-P	TYPE OF DECOMPOSITION
3	1	0

.....





.....

x = -05/2      b = 637514145

u = ( -7504200000714227106275660791421702217609007007275475    -10700546276911220216656051507534790142110000 )  
v = ( 11761000720022110704130427530007500470991005472775190946106742000004041730    043005146072070057631001610650175006200004  
37054230910051154661072000 )

J- INVARIANT

J = ( 2010000042200047163277600256110177275354027661054500009665110636000063725000161/120002046612579100050122604702260444054661004  
951607500000 , 0 )

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 16 Z.

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

u = ( 42765204200040520110020015    77706726070063706530 )  
v = ( -3754226100751709752230066106063000    100711091500670000607950100206000 )

FM-P-VALUES

p	fm-p	TYPE OF DECOMPOSITION
2	1	0

.....

.....

S= -13                    D= 2467463  
A= ( -1127200004136931716502112004790600 )  
B= ( 14001682414000371496300754272300004647796227813047669096 , 210775420046166675545152734207993312622153763027200 )

J- INVARIANT  
.....

J= ( 5333727753670216373000076299300799012795605100631601 / 12900009954164242650702019269427200 , 0 )

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 16 Z.

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

U= ( 10000014237150754 , 1000000300922 )  
V= ( -14799720331600040712706160 , 9217129541015330976120 )

NU-P-VALUES  
.....

P	NU-P	TYPE OF DECOMPOSITION
5	1	0

.....

.....

X= 5/2            D= 24960  
U= ( -34200006360590155411 , -2250190000155400520 )  
V= ( 507630040054321601000075556010 , 26400760006100490075229167664 )

J-INvariant  
-----

J= ( 57500700772444106360002070204 : 6705000361000000000000000000 , 0 )

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 16 7.

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

U= ( 44575705401 , 191299760 )  
V= ( 10001264500750000 , 36677016250000 )

.....

X= 2

D= 70  
U= ( -6000373242547 , -0010013009420 )  
V= ( 2500170004620104710 , 2337000012204050060 )

J-INvariant  
-----

J= ( 37000465220200001/120530010000 , 0 )

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 16 7.

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

U= ( 7270053 , 656502 )  
V= ( 1261520060 , 1577250076 )

mu-P-VALUES  
-----

P	mu-P	TYPE OF DECOMPOSITION
5	1	0

.....

.....

D= 27/2                    D= 643103

A= ( -270707104204236427200610700751075354776060067 - 50026567190005780012540350000275716027376 )  
B= ( 1004004733601001327000005025154532110005725702000060050776753606704 , 5675000222567275776875102105723313057547037009434037715  
28310640 )

J-ISOMORPHISM

J= ( 13061041364775300005637550270706300643642301090001004350053390003601041 / 3900007000006033675007011106003056605710001000467200  
. 0 )

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z ADD 16 Z.

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

W= ( 043662219081007710000 , 1052106705300421000 )  
V= ( 1631007505573027760765027301000 , 5410662230000006471227000004 )

.....

.....

x= 22                    b= 250015

a= { -42200200022640077200005120002100040410007 , -25261710547767042504000573577100160760 }  
b= { 3552333004041076750040471350000017666172021730410040000000717530 , 27952005337200025006322002757036106099020505107005301200 }  
c= { }

J-INVARIANT  
.....

J= ( 5370061050070060656021100160170125017050637000417031700640776641/0043400702760650020710752120020006095200 , 0 )

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 16 Z.

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

u= ( 1106176537354167070000 , 37310107135616000 )  
v= ( 3700400700400000700330070000 , 2550007000000500706900952 )

.....





.....

Z= 00                    D= 02505

D= ( -270237745507251220723063400410545902000775542675    -0325137517170700000045260751653152007642004400 )  
D= ( 340044012204005410040012070136067300000102654425071610370246581700527106750    , 13004204416550075534702095623753701649006529154  
09120407100256635700000 )

J-INvariant

J= ( 62301445300700005725500042754523443704262009071541953500506056067500950561/007764006406000231040950543346500050079475040000  
0 )

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 16 Z.

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

U= ( 302023470040346201091215    , 20017001002716111500 )  
V= ( 835050147307055779070437520000    , 2142510400727066065062517672000 )

.....

.....

X= 97/2                    D= 879195549905

A= ( -2027555957510126200776367002600640004291332842099990202054079667 , -855282370717526406321304523615272168761077730050051007  
2004 )

B= ( 35161769514407140656400949454871201713150068572543052929405664654101099957842710030520465760753054 , 217120005160375776097595  
774833170001710012550302750306275791647786656090040057509961310255112 )

J-INvariant

J= ( 61126723104597005412500220000471412207030376560946643109506060750040301333403595041051010342561/4735727007705654705725439051  
05208200552700430223047647504141300531200 , 0 )

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 16 Z.

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

G= ( 259429218004022144270009066156463 , 5360052921017164259101020 )  
U= ( 3700000716263096757302755060007003424254600 , 37032000419065004000020043927766032000 )

Mp-P-VALUES

p	Mp-p	TYPE OF DECOMPOSITION
3	1	0

.....



.....

t = .00      b = 52126695

a = ( -50001121620653675041051871001200772156317610930675 , -5364850557606002170704051091300104202005400 )  
b = ( 647050000000007000700050051049671013070571073605201517005220120733000531270 , 0648700620200042204270000150050005000754235651122  
700001127010075000 )

J-INvariant

J = ( 5647771637001020002023200020750400000047715040050051000017025203030401/19075000701701370171006020301105520506500640000 ,  
0 )

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 16 Z.

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

u = ( 110204166500071000000105 , 057005000417000500 )  
v = ( -25120150052070007515704000100000 , 1475675205050514704066567000 )

NO-P-VALUES

p	no-p	TYPE OF DECOMPOSITION
3	1	0

.....

.....

s= -63/2            D= 213710001

Q= ( -415622072029350600766017332070000740005252100603370279267    -1027750005450654228806075027070102055047605545704760 )  
Q= ( 2366406321063407301665750316000105123074007375001904032567700644277072000310050020520    21500642632940395017000601570023212310  
011000070005930004757150066302700201030050 )

J= INVARIANT  
.....

J= ( 0037259060701490661007300000600667600250560500075207162160303415111230044000707600001/0775060570060706011526002323250337061  
372003607505275057200000 , 0 )

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 #00 16 Z.

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

U= ( 11761036620000636003060397367    26050270061007363465700 )  
V= ( -0660000445049500065207775200560042150600    30407125317234430163035054200469600 )

MLP-VALUES  
.....

D	MLP	TYPE OF DECOMPOSITION
3	1	1

.....

.....

X= -22                    D= 4837600  
A= ( -100271000017761421313134100767430163332707 , -7007500127103061345503556633040300754 )  
B= ( 320475105290214340062203109116223032100200372073206200744550754 , 2010061262400242467222700195701430442195005010775512467300 )

J-INvariant

J= ( 67660000001040300267001717006240072000020646005426110302001/000607451053006022539455400156529500000 , 0 )

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 16 Z.

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

G= ( 2510104001100002073 , 5342702902615400 )  
G= ( -4200270072063300450500651200 , 1000321010900609535395052 )

Wp-P-VALUES

P	Wp-P	TYPE OF DECOMPOSITION
7	1	0

.....

.....

X= -25/2      D= 4046360

A= ( -127545321000425220642040032017763663150047 , -00470010412006114604003996316079109520 )  
B= ( 527539630530567066773681500707049940010632257535012709117523014 , 5776304543006243009561106121514244765772220095042200062560 )

J-INvariant  
.....

J= ( 191687656041124097170200402990695959007044124606031901536026004001/2317341205006502297735001415773040400000400000000 , 0 )

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 16 Z.

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

U= ( 634610000420428195343 , 24754460529106200 )  
V= ( -99621254075042032650510966000 , 44360216143574277676430000 )

.....

X= -12      D= 1030

A= ( -047725499011011450606025452 , -3353105401366236272611152 )  
B= ( 960284656195606094502947064770050077424 , 56290670050555096410104000400010762236 )

J-INvariant  
.....

J= ( 1054271149020160720023545904220731400956631041/401016956719059743706107100000 , 0 )

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 16 Z.

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

U= ( 16677075324710 , 53003094756 )  
V= ( -064023065762466600 , 11070704006060064 )

.....



.....

X= 5/2                    D= 1945

A= ( -1713100005207601554051400675 , -65012003010046950002163000 )  
B= ( 954940644500001706413704100551001520720750 , 4051001300034060003005037042635246355000 )

J-INvariant

-----

J= ( 2035425000630000253232070005232140705761/3113300421174100057462020040000 , 0 )

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 16 2.

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

U= ( 0279717047335 , 279300027000 )  
V= ( 353930011600120004000 , 2362530131456023000 )

WU-P-VALUES

-----

P	WU-P	TYPE OF DECOMPOSITION
3	1	0

.....

X= 3

D= 3065

A= ( -71943271306136000152 , -443171300902042024 )  
B= ( 251043104499009754704317340544 , 2100701735306317007353379302 )

J-INvariant

-----

J= ( 13007101362040921057775657601/10116620990101440000 , 0 )

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 16 2.

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

U= ( 5001170750 , 24605762 )  
V= ( 105433601024000 , 1269204732020 )

.....

.....

x= 10                    D= 200914  
A= { -9918781278071497801842946004234495491    -1092204784772983640737017815540952 }  
B= { 4220040071711995727620600611100460045075764947750022    , 1009842533655454955721064409750182511470246175420504 }

J-INvariant

J= ( 6211167606577100174601000300195700623350076050073201/1016110053739656601957500000000000 , 0 )

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 16 Z.

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

U= ( 1270056320230091010 , 200157932000260 )  
V= ( 500011021065755414740000 , 11074032660130510629000 )

mw-P-VALUES

P	mw-P	TYPE OF DECOMPOSITION
5	1	0

.....

.....

K= 45/2                    Q= 26478545

A= ( -1100041200406332007940657791685700700100013034006475 , -1013002106526321704452159901257060756304700206400 )  
B= ( 1003178037710007902511405293263400047567563021517125009010005771031821270790 , 873417110070060079620761650040732510226005  
0000127200700000370051052001000 )

J- INVARIANT

J= ( 170076604405700670942244020074028353210563711513115130001404703415165306250070041/2076206471040301405544407400900212165511791  
0604535536640000 , 0 )

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 16 Z.

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

U= ( 1007006710043300000100775 , 1657651634000001257060 )  
V= ( 2386974006231063079002092191501602000 , 452711160731411000610110006010000 )

NO-P-VALUES

P	NO-P	TYPE OF DECOMPOSITION
5	1	1

.....



.....

s= 01/2            b= 4220476305

a= ( -118006003354490830534704399727000021503090826004630062705427    -02562779733167130647765004037063269710441007900957753 )  
b= ( 14113618220072371241567700929700157970536030524476200000704246304015909240004795405215204    , 15035795435442742924001732520447  
03406101429343006001902327540304210197395719550216 )

J-INvariant

J= ( 120732320007339331003160035002976442005676094520501009432203005720575705670042550050350704401/167064405705531030001410514304  
10030934945260104940153001091040000    , 0 )

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z ADD 16 Z.

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

u= ( 101712019520060435023300530703    72062016002901015620076 )  
v= ( 12601701194957577651577071064231956262000    , 104013476009746725300250535400340944 )

rw-p-values

p	rw-p	TYPE OF DECOMPOSITION
3	1	D

.....

.....

E= 49                    D= 331505049

A= ( - 833700610016371505517254735712624000070700000763352216 , - 061804201576169374102100635333529067057770290000 )  
B= ( 110001201707620071000000501002367052772593017070001939326417006104249952355374272 , 36554971743900000501759021351726441117652  
001302226339573700025114079064036 )

J= [000]007  
.....

J= ( 3510736900764502110292536397712101426174150900173525170400555502121956901424940001/232006432700067390002730102691650900675000  
000000000000 , 0 )

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

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

U= ( 30010072544043205405071494 , 422002270050910006442 )  
V= ( 63404969732212615441826270000000000 , 3490050942142411770750000000000 )

.....

6-3

.....

X = -95/2      D = 610063295505

A = ( -252045063706295010616500406495047602610945297500109513062370675 , -1361307440023111762737076519545167070040031651399522060  
600 )

B = ( 15411060075004730767200550002124422072015147530230072027081454955045501260331354110009007500550750 , 124767536952500709000950  
700041003107600732401171066436570600777977603979106610004541000 )

J-INvariant

J = ( 30961734707100424101701007002703204707045736459540010554000045020700900002711034005737079550561760021663766605520657155701039  
10534001070020375107026707665460400000 , 0 )

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 16 Z.

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

U = ( 91617563205710675736667020607125 , 2402663434002613600996440 )  
V = ( -07760765033241290137606916007424100268154000 , 111600700051900007472710002709501134000 )

FM-P-VALUES

P	FM-P	TYPE OF DECOMPOSITION
3	1	0

.....

.....

I= -70/2      O= 7000101657

A= ( -99230008215171207951010099007671400642077609467961500157037427 , -3410790172207753000517050644502107065252909900465034000 )  
O= ( 17644003744001207757607137609757707114402777621092110017951036571704164706204295422227670050 , 15154671535414011430630021321  
6777970710530036753000061502223225232400703090070037017530 )

J= [000]INT

J= ( 3902571600053420420140257025754760004067031609604273604107055504053009200551053751531076001/151007064151212001310130450412022  
17062000920473956406310400000000 , 0 )

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 16 2.

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

U= ( 4441769157003051600523437602703 , 120001000272500370000670 )  
V= ( -104430053105002367471770700430072005170000 , 10475077002162500073421364842597004720 )

.....

I= -20

I= -20      O= 0067005

A= ( -1701401696002420120270641109640763734032340672221272 , -2956423263001212000201000245402250031916023304 )  
O= ( 24714075005007101370004500013043710622532057046120313220669467626000450044 , 722425239521095005537070503326339317702640191  
50604073042106500007772253 )

J= [000]INT

J= ( 6443270064655300775343146610527577020619060136277140375560211095110114074001/35535606703632990974340004534304111319031206323  
200 , 0 )

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 16 7.

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

U= ( 24426047056524411700454100 , 202547010395230000670 )  
V= ( -328405150400001222461700195536640 , 700070667660775030064612511206 )

.....



.....

E= -31                    D= 679309161

Q= { -73700473605177044182041572020307307000075027976 , -104913425106070309100262010570834154444264704 }  
Q= { 204317011557157033043110046130458750400663710753757540009561000607006400608 , 9160561010757089630041710200357790643341009701  
3006470646122073608903 }

J-INvariant

J= ( 7766167056510702000034720107027670003576026342010736100105000720630401/10363763700067351270050506775321000000000000000 , 0

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 16 Z.

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

U= { 095304266073030000010000 , 679070000339700004 }  
V= { -005070200776700115705050000000 , 155300051042000613002960000000 }

Ng-P-VALUES

P	Ng-P	TYPE OF DECOMPOSITION
3	1	0

.....





.....

X= 7/2      D= 739905

A= ( -76070022724402996351700020047707 , -3057354599936400043057320044 )  
B= ( 27765000076299054494040490711634000732507432454 , 19969457700657927036152261433600762236722912 )

J-INvariant

.....

J= ( 1629007062650576007207012004104103200276846721/142007007470812167910225000533564000 , 0 )

A POINT OF ORDER 36 IS O-(U,V). HERE IS

U= ( 3437940037641523 , 1047604131520 )  
V= ( 6040105063020315164000 , 76000104522919110064 )

THE ORDER OF THE TORSION GROUP IS AT MOST 32.

rw-P-VALUES

.....

P	rw-P	TYPE OF DECOMPOSITION
3	1	0

.....

X= 4

D= 1326

A= ( -2212014091610670969034 , -29940161491046370734 )  
B= ( 42421211323667025353627213190632 , 649076563720924631654361630432 )

J-INvariant

.....

J= ( 20710651292023075199060042001/5077020000505750000 , 0 )

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 16 2.

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

U= ( 2044727234 , 197002044 )  
V= ( 37096002700000 , 1510684250000 )

.....

.....

I= 29/2            O= 906300905

A= ( -154308673997001000293207702201115094610119719747 , -64257326762059135000605110636555762125416540 )  
B= ( 25462845100597512040772710010960000051154043491070595302502434630424004814 , 10542627602905021644687497607000137554060622236760  
094707740050070051000 )

J= INVARIANT

J= ( 36795191091464070331202035109500595176639430504604510663550547534602001/3353059503212579046317457075997770937949009900094000  
0 , 0 )

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 16 Z.

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

O= ( 2264001632762179941702903 , 0054613063691505076 )  
V= ( 10630302540160152709763630065907600 , 33492701201179500771429134032 )

.....

I= 15

I= 15            O= 1000545

A= ( -19540755370220021453702000011106443000 , -57545447906039070070070073177267541000 )  
B= ( 335637042449077725107012000267300511750670077010053047552000 , 14609063501014503000173374601071609616446300166400000 )

J= INVARIANT

J= ( 5710064000170965610750550202005530204622607149710065704001/329711010710706507602090140267706200000 , 0 )

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 16 Z.

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

U= ( 25530557004260000710 , 305305729007520 )  
V= ( 364325790700310251700220000 , 03442056023223607160000 )

.....

6-8

.....

r= 29                    b= 6247633

a= ( -674500101145007751903094670775506720102007102 , -100004057900001701067779901060604252071120 )  
b= ( 674500101145007751903094670775506720102007102 , 100004057900001701067779901060604252071120 )

J-INvariant  
-----

J= ( 170544400094100201610105000443000065400440437000454610410100097121/14477765370470546427102003577272074200000000 , 0 )

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 16 Z.

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

U= ( 14006501552907307506342 , 223215100095400010 )  
V= ( 46713057003221521416413070070000 , 16106376110004660007170363000 )

PRIME VALUES  
-----

P	PRIME	TYPE OF DECOMPOSITION
5	1	0

.....

.....

I= 65/2            O= 1094637105

A= ( -12000037754230000134797004418100001140141000165165075    -48063499106521037075000000010013700509000001000 )  
O= ( 22196337217007501573014543710001066342099163473004175007612391960975040090003004750    4335075000075000300031140071095000231  
119535527100000720010000067000736307031000 )

J- INVARIANT  
.....

J= ( 430013440013161000134456370432700172000000000000329597109000713736440750272236005100201/176017500002000200472332013440000123  
006716000004513201070000000    0 )

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 16 Z.

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

U= ( 1033043730134200211122000000    7110043004404107690100 )  
V= ( 3000230000112002712004412000000104000    0001401900077077536000300099102000 )

.....

I= 33                            O= 1634337705

A= ( -36007132004201525521700000077010006430000730003472    -03700003002722630977015750206400647317666764 )  
O= ( 365000000017001017120900530000063400670970021373270076150600040756164544    360000639036099400041110136003460200010500210  
2001010100470770010012 )

J- INVARIANT  
.....

J= ( 3176522753601300013000470176719950069295729013500675571647960766000007601/10000012002420470042136507553776016471004375040000  
0 )

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 16 Z.

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

U= ( 0353710000095001000170070    327004400649103342 )  
V= ( 2510293001066007020100004511610000    6370000051272005407537001160 )

.....

.....

E= 01                    D= 574790065

D= ( -3953643324315479279630200092200750076570221117971170072    -2500710002000437610677343090354634633469777234532 )  
D= ( 3020454043030096066002902156914302000601362756915460029022451937007255061113907776    , 207970554042933201500710173061000021053  
505010039601232241044900637501124224 )

J- INVARIANT

J= ( 01292101975004706660401500047550337090049265033067006611056976137433626009441/0709956407101720120900716022460224167307122337  
006000 , 0 )

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 7 x 100 x 16 x 7.

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

Q= ( 1147753121932220127310031627    365501351007626142000 )  
Q= ( 566570783905620576920647555567523040    , 7060030001003406175012110230656 )

PHI-P-VALUES

P	PHI-P	TYPE OF DECOMPOSITION
3	1	0

.....



.....

X= 99/2                    Q= 127571571265

B= ( -676688393940400401571120497792614061171495368490106762276014907 . -541372172066383129622971370604777500745824199354631160

0 )

Q= ( 1250370957565400750040097561810096405740045995706292556162074900702903387453400740040007467606 . 21527600559562194033431402

149175119000743600096455503057754468258302990062271090063709200 )

J= 10001001

.....

J= ( 1347110000447200643301507072060490003610054001091570097527006030900600319210263007739034647651361/090256142056500017597075313

970042246755405997810200300939009164363200 . 0 )

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 16 Z.

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

U= ( 39761635009949649484480436401667 . 2274789337926213732731752 )

V= ( 20872647410031953777418370576405762925665040 . 59574670464497141223069297317403312040 )

mu-p-VALUES

.....

p	mu-p	TYPE OF DECOMPOSITION
3	1	1

.....

# 3

.....

X = -47                    D = 3082465

a = ( -7904422179540000000170140002007000704990722995472 , -10700612060770000754417700700714300000000419044 )  
b = ( 06170170000010000000071170075040170002112000511510271917270037539471024704 , 2977649137677000515000121000054006700700716995  
01247003704001006000561472 )

J-INvariant

J = ( 041065027000700025122006207006624551200277627000061170015406373102701301000104001/16091077702300520900130001012706411070561326  
013104000 , 0 )

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 16 2.

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

u = ( 16277501121070400000007300 , 107071001001320465122 )  
v = ( -67076261400610064100710600170000 , 2690031064272100725101105200712 )

MU-P-VALUES

P	MU-P	TYPE OF DECOMPOSITION
3	1	1

.....



.....

x= -61/2      0= 30272315105  
a= { -1134755141140011204701530014391000139500673036400101112107    -307000100173126114172365410243751070536006055630400 )  
b= { 47041070534727300054101005174439046730424005150001900750710022406000711077102730069004    3400632305051701115100004053002154  
1707337453164754036900009776835439001703053040 )

J-INVARIANT  
.....

J= ( 070731320001700000000190001470672070260006170954770051020696453059033200662077701521 / 3010107252430406120255322206430057000270  
72434654364243703940000    0 )

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 16 Z.

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

u= { 61002490151036774300000672600    1047307407300040000016 )  
v= { -50061040001002740230136130137311700400    300110623700443210544702097030052 )

.....

x= -30      0= 34740310  
a= { -7400172243107075420477540104135200070410073    -040307016101395205400430964344720000 )  
b= { 249974632464102510501677020040574853651265104053304095005450152750    4200036460946306417134549700501900073050630016134233723  
07900 )

J-INVARIANT  
.....

J= ( 37100375304299000442500645170002706730000750391400537313590633706401 / 15143715264535100000752276460290411331100000    0 )

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 16 Z.

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

u= { 4002677655042000704005    20013500733306700 )  
v= { -1030013071000040095675321000    24301131024970063705024700 )

.....



.....

E= -11      Q= 0760  
A= ( -3057907167123499525116340600180134 , -1001535449971801300000005544072 )  
Q= ( 200412513400543070580500611003551109501962750007060 , 19100607335015670413001563265905604607027030134 )

J- INVARIANT

J= ( 701750130011200007543000010175415515031130277601/3212077400110201000000000000000 , 0 )

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 16 Z.  
A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V). HERE IS

U= ( 99922413771620564 , 3200411205602 )  
V= ( -297050415010000000000000 , 07040111302240000000 )

HP-P-VALUES

P	HP-P	TYPE OF DECOMPOSITION
3	1	0

.....

E= -21/2      Q= 36615705  
A= ( -10029010010072014300000102130299956440007 , -60020542210347005105477626273010660 )  
Q= ( 1027064065044113461043171117544220054407270430017000056331766 , 0005020740000560760116361701707045750694055421747005030 )

J- INVARIANT

J= ( 10250020532247540260220760050517057470051052516301753700700001/097726031701057507560400026600557106373106000 , 0 )

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 16 Z.  
A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V). HERE IS

U= ( 70002942060773105207 , 1241100047332366 )  
V= ( -7601224313013116201759504000 , 1252627050060003011760016 )

.....

.....

T= 9/2                    D= 10063

A= ( -670079662762000110274131500330067    -236016420662176017000007420000 )  
B= ( 7006354155995574770000121242503047032010011700526    151000743101076117610952030220172001061096400 )

J-INvariant

.....

J= ( 40753065100099007901502166706045960151163720621601/10062751000519340003003106552012000000 , 0 )

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 16 Z.

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

U= ( 1541734917000067    12637924700660 )  
V= ( 1670216707504709100000    1570325072176427504200 )

NU-P-VALUES

.....

P	NU-P	TYPE OF DECOMPOSITION
3	1	0

.....

H Y

.....

S= 31/2      D= 144326389

A= ( -11200110700060016000151200400091901111006750477047    -370067714013007007054191019175420511104011000 )  
B= ( 470100954712641007700510306390615530075340006030064910176900657553011127654    22005220677330010902261115061369701063210151200  
0970962150013649951104 )

J-INvariant

J= ( 707001060699645107750705122175247310001050053770051000156353209504306001/2400110640447900921155010467350105063500220630670000  
000 . 0 )

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 16 Z.

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

B= ( 613051000709940067056125    102001705005121504 )  
v= ( 301994510011300645375300600210000    10275201602140707099522064570064 )

PHI-P-VALUES

P	PHI-P	TYPE OF DECOMPOSITION
3	1	0

.....



H-8

.....

Z= 47/2                    D= 10940007305

A= ( -10940007305, 10940007305, 10940007305, 10940007305, 10940007305, 10940007305, 10940007305, 10940007305, 10940007305, 10940007305 )  
B= ( 10940007305, 10940007305, 10940007305, 10940007305, 10940007305, 10940007305, 10940007305, 10940007305, 10940007305, 10940007305 )

J-INvariant

J= ( 10940007305, 10940007305, 10940007305, 10940007305, 10940007305, 10940007305, 10940007305, 10940007305, 10940007305, 10940007305 )

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 16 Z.

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

O= ( 10940007305, 10940007305, 10940007305, 10940007305, 10940007305, 10940007305, 10940007305, 10940007305, 10940007305, 10940007305 )  
V= ( 10940007305, 10940007305, 10940007305, 10940007305, 10940007305, 10940007305, 10940007305, 10940007305, 10940007305, 10940007305 )

.....

Z= 24    D= 4113759

A= ( -4113759, 4113759, 4113759, 4113759, 4113759, 4113759, 4113759, 4113759, 4113759, 4113759 )  
B= ( 4113759, 4113759, 4113759, 4113759, 4113759, 4113759, 4113759, 4113759, 4113759, 4113759 )

J-INvariant

J= ( 4113759, 4113759, 4113759, 4113759, 4113759, 4113759, 4113759, 4113759, 4113759, 4113759 )

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 16 Z.

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

O= ( 4113759, 4113759, 4113759, 4113759, 4113759, 4113759, 4113759, 4113759, 4113759, 4113759 )  
V= ( 4113759, 4113759, 4113759, 4113759, 4113759, 4113759, 4113759, 4113759, 4113759, 4113759 )

.....

.....

S= 67/2      D= 11408559465

Q= ( -197272717705040409990736914297543314515267416072222082944247 , -342612926761716374204701072576740575528033062195807544 )  
Q= ( 106704667001643295173143047052176104270071206754201151251904001950019750055505704900742654 , 2770047547061040743900979106467  
5610904567431157001346607551264711930275073295306112 )

J-INvariant

J= ( 100290321740034061790004651610050260472421267690330504206454500207516241582450051675681/4536506910732102060740026432547479  
15657027257600093672754412000 , 0 )

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 16 Z.

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

U= ( 0106353446950110004571201001 , 7001337430658200270570 )  
V= ( 19553440667176400637500700045474064975120 , 572100059756109510510340600971037504 )

WD-P-VALUES

P	WD-P	TYPE OF DECOMPOSITION
3	1	0

.....

.....

r= 05/2                    D= 394600004649

A= ( -1549299950072957003047162429147323318262016962004010012153534411 , -1172227106057751213393292172209702646040544613711522004  
0 )  
B= ( 23491959345016510114017305426951257645215096427236761512043354005703031763630301513561105610902 , 266345520301654320456507461  
025973005233102290000732000143454274622760249707320047636976 )

J-INvariant

J= ( 005952105510200175114470153410500204405645576032095233662009074602674023061404327639914003601/3597156706034070690315216525702  
6369376034279500241000000000000000 , 0 )

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 16 Z.

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

U= ( 22720960162006427004532637620070 , 062052023655200077724312 )  
V= ( 15219517795200501001564100076755340326750000 , 24200550945406267791052745973070750000 )

.....

r= 42                    D= 16520000

A= ( -25202001400002050020001945291650024071226004702047 , -292120330439704874110092200322406991091642700 )  
B= ( 40972225050045620164201940107680013301017363042100764436271556554001955026 , 047906007526260004779270507640270013600540044951  
00002400040050765500 )

J-INvariant

J= ( 41042357120107467096020916300760040030469975504776040764727799640202752001/4334793706432030552141303090414142474319050230000  
, 0 )

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 16 Z

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

U= ( 2902466405702410996736417 , 16031270030726120700 )  
V= ( 670634778333029573364475640001000 , 144703132126017005400310001940 )

.....

.....

x= 50                    D= 45600026

D= ( -766270321644631830303750725009162430613747670512627 , -440360649555630246169179005070604656087700540 )  
D= ( 816918135595330009100976150757720712563437516344073661955430062294714070954 , 71652204653104100952039530744325363005390000  
4653040435105101270022620 )

J-INvariant

J= ( 2223206156516679315207441000402912702060770500650702370500602469036206366191201 / 10670435547169200203442437005245319230240000  
3750000 , 0 )

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 16 Z.

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

U= ( 1597950330460045216070053 , 46075164000213400050 )  
V= ( 5161203041004227302366607122501000 , 762933091792007523331639077500 )

WD-P-VALUES

P	WD-P	TYPE OF DECOMPOSITION
3	1	0

.....



.....

I= -20                    Q= 16041410

Q= { -17061819061278124400006000472095673127041027057    -191276367776427055240204306034712700631402100 )  
Q= { 23411441177070107007072203443051064360044107001224063611070005110103472    437700053301210073104300130090544200006009754063  
02073041343007009300 }

J-INvariant  
.....

J= ( 45090005477065090370430070044120079063+0360676606201566261402796420227561734904747071540401370463113655215074219321275300 . 0

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 16 Z.

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

Q= { 223061880701642307000133    105000075903751420 }  
V= { -64341240000570077634201677290000    16115767032752766763660910030 }

WU-P-VALUES  
.....

P	WU-P	TYPE OF DECOMPOSITION
3	1	0

.....







.....

N = -10            D = 6595

A = ( -241510790000000212001177000675    -61212097643005300514487400 )  
B = ( 4699160430217530165007681549976160200009750 , 17392600062044206005005100472095631620000 )

J-INvariant

J = ( 1104001101272470230133643536034503042003361 / 75705104200004960991040000 , 0 )

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 16 Z.

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

U = ( 20000454271335    30010607750 )  
V = ( -6075000706300716000 , 717504121203620000 )

PH-P-VALUES

P	PH-P	TYPE OF DECOMPOSITION
3	1	D

.....

N = -10/2

N = -10/2            D = 10120305

A = ( -01000000037957536427600453005110060047    -204751751502200150631202210063000000 )  
B = ( 325000750007531704721757540001003127560010000200410971034 , 210146720275102006001601336000300501311007067771300704 )

J-INvariant

J = ( 0166700026015124375960310096106266621407756122405247507601 / 100360090027720355140004170462034723330240000 , 0 )

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 16 Z.

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

U = ( 11527010640700001221    2170420070211204 )  
V = ( -100415750000751600002040000 , 43700270300155070503264 )

.....

.....

X= 5 D= 6063  
A= ( -38904002224007477153142200 -460023202610597937904200 )  
B= ( 70475631401271070713640530004730122424000 , 154105162337215630530642730064300074000 )

J-INVARIANT

J= ( 10050642901530612601774307106355516641/6265003610702627546240000 , 0 )

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 16 Z.

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

U= ( 3400001007000 2795000100 )  
V= ( 1524101000300100000 , 5185040165000000 )

mu-P-VALUES

P	mu-P	TYPE OF DECOMPOSITION
5	1	0

.....

X= 11/2 D= 6104263  
A= ( -1213376204731677010176007647257600107 -151050054470063670600700070024520 )  
B= ( 1605716430111260064272737000074710703010400100035202054 , 30255005150401030176172013141000752057004610043024 )

J-INVARIANT

J= ( 1605574554277060000001006374761315441007621707132321/2372136703656410600107527247710167040000 , 0 )

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 16 Z.

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

U= ( 204104470670732000 10017002400004 )  
V= ( 140067003301370645070725300 , 57207040002301000434224 )

.....

.....

r= 16                    D= 66690

A= ( -10017931252947761900002490261175007937    -932756000649703767619012751233568 )  
B= ( 766777671670065755126240136954560990576321926169839536    . 22068271926517646663067722006304061000105267633235156 )

J-10001007  
.....

J= ( 250706094061007040070220637202793790609543561007000905217562103006235541826254437402174156000    . 0 )

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 16 Z.

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

U= ( 234617326006717062    67213990037060 )  
V= ( 8507650606360770010077466    . 3916111426067482600064 )

rw-P-VALUES  
.....

P	rw-P	TYPE OF DECOMPOSITION
3	1	0

.....

.....

X= 00/2                    D= 80672005

A= ( -57330700018076752200750054704947117887722750000007    -21107100033000224224000754200310003100436200 )  
B= ( 441001200211700144000770079480212005703214772151351570677116014100360022610520    2707770643717000673017645016050007015051007  
507323443041072000000700105400 )

J- INVARIANT

J= ( 00740070500770275323651057640702630500516000610075555763061100632751507417227041617204000427520205463300273966136135320205003  
000770507020015200    0 )

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 16 2.

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

U= ( 12701050671563264511317007    27000075904310007300 )  
V= ( 1013000441000203647575300531000100500    51457066003341520507757324553060 )

RM-P-VALUES

P	RM-P	TYPE OF DECOMPOSITION
3	1	0

.....

.....

X= 34                    D= 1500774

A= ( -2041071633700401291607124209107326302079909320431 , -447054088105407500490635410529631036623990060 )  
B= ( 10462001640010244700130970064521510061350063254375311720435651110636837002 , 4754420910450546521047122042016200002040703643200  
0463072063066720036 )

J-INVARIANT

J= ( 3121620770514017663631010959908746570499221940085300515014133063629201/6284009097306679550067141300524000371003750000 , 0 )

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 16 Z.

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

U= ( 073021033310133367465909 , 7700472000001271202 )  
V= ( 20354243433010620090900403125000 , 66227750700046704506100312500 )

mp-P-VALUES

p	mp-p	TYPE OF DECOMPOSITION
3	1	1

.....

.....

r= 34      Q= 1500774

A= ( -2041871632700001201605124509107526502079909520451 , -64705408310803500499625410520631036623990060 )  
B= ( 10442061640102547033209700645211556135066375437311720035631310636831002 , 6756420510670546521047122062016200002060701642260  
006207063066720036 )

J-INvariant

J= ( 312162077051001766503101095950370457049022196005530051501413306362920146234995097506679550067141300524000371003750000 . 0 )

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 16 Z.

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

U= ( 07102103331013567045500 7700672000001271202 )  
V= ( 203562414330106300500309603125000 , 64327750300046704506100312500 )

mu-P-VALUES

P	MU-P	TYPE OF DECOMPOSITION
3	1	1

.....

.....

N= 34      D= 1500774

A= ( -204187163320040120160512450910932650207900920451 , -44745448310305500499625410520631836623990060 )  
B= ( 1046200144010254700320970064521115061750663354373111720435651310636633002 , 4754420510650546521047122062016200002968703642260  
0462072463066720036 )

J-INvariant

J= ( 312162077451401764563101095950374657049022196005530051501413306362920176234095097506679550067141300324000371003750000 . 0 )

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 16 Z.

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

U= ( 973021033310133307465500 770267200000127202 )  
V= ( 243562414330106300500500603175000 , 6422750300046704506100312500 )

mu-P-VALUES

P	MU-P	TYPE OF DECOMPOSITION
3	1	1

.....

.....

I= 34                    D= 1300774

A= ( -2041071632700001201695124309109526500079900520051    -44705400010000500490075410520631036425950060 )  
B= ( 100420010400107507003200700045213100017500022545373311720035651310636037002 , 6754420510670546571047127002016200002000703642260  
000072002000720000 )

J-INVERTIBLE

J= ( 312102077051001766503101095050370657049022156005530051501413506362020160304995097506679550067101300524000371001750000 . 0 )

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 16 Z.

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

U= ( 07102101110135267065500 , 7700672000001271200 )  
V= ( 2015620511010030050000003125000 , 66227500700006704506100012500 )

WU-P-VALUES

P	WU-P	TYPE OF DECOMPOSITION
3	1	1

.....



.....

Z- 05/2                    D- 053333752105

D- ( -3250476042333400302307576092162500564296996303976200297603103075 , -224711534007536970307721057400950665106674751050273740000  
0 )  
D- ( 71630012063374223594929619600425334006023557505240142062921071406300043217342701420056037624750 , 740515300957070740671066194  
300097106272477600356200465512376450975505063137100290203000 )

J- INVARIANT

.....

J- ( 128426336302393656001094361000520407336052360067042942046525073406517997102515460610067013132177572017420474009541230174000665  
0603100722300363362710530050160040000 , 0 )

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 16 Z.

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

Q- ( 32950501113334609653051771196295 , 1140350677064670750006020 )  
V- ( 24766037141145067235109050701957066050300000 , 3670003760430640622037647962909342000 )

WU-P-VALUES

.....

P	WU-P	TYPE OF DECOMPOSITION
3	1	0

.....







J 8

.....

s= -30/2            D= 2200034465

a= { -437000044003767370411700106121270924697002460747 , -959072107707113310500007000243137110170200 }  
b= { 11101700111001770770742001033140330047310305101007400112104504700020000 , 56756010012240000510620660772950700010120060200 }  
c= { 00010430004774001200 }  
d= { 00010430004774001200 }  
e= { 00010430004774001200 }  
f= { 00010430004774001200 }  
g= { 00010430004774001200 }  
h= { 00010430004774001200 }  
i= { 00010430004774001200 }  
j= { 00010430004774001200 }  
k= { 00010430004774001200 }  
l= { 00010430004774001200 }  
m= { 00010430004774001200 }  
n= { 00010430004774001200 }  
o= { 00010430004774001200 }  
p= { 00010430004774001200 }  
q= { 00010430004774001200 }  
r= { 00010430004774001200 }  
s= { 00010430004774001200 }  
t= { 00010430004774001200 }  
u= { 00010430004774001200 }  
v= { 00010430004774001200 }  
w= { 00010430004774001200 }  
x= { 00010430004774001200 }  
y= { 00010430004774001200 }  
z= { 00010430004774001200 }

J-INVARIANT

J= { 17000104300047740012007330050646720070600113001300933007247100210160153606101021 / 974335003007000200211202770010666624917071421002 }  
K= { 0 }

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 16 2.

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

S= { 301013300007070000001207 , 434070013110470000 }  
U= { -110002143261700740000011500000 , 217200170100942100100000012 }

.....





J 7

.....

E- 53/2                    D- 2042520040

Q- ( -982991007005773200004774000112073420131160731 , -7376232000007000070004670222000070015400 )  
Q- ( 100170015417011700130100070077112010004004000000001000170011700000700 , 01643400161707100013000712000401000146130570700  
24707000001120700344 )

J- INVARIANT

J- ( 1200002220674200100715270000005400150407317822700000390067370032734090001/1601010073605227000076277131000411005610000000000  
00000 , 0 )

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 16 Z.

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

Q- ( 173700210401100176210951 , 2000713234073411040 )  
V- ( 09500537042700001017510000470000 , 1000015070701900530706270000 )

.....



.....

n= 25                    b= 1676337

a= ( -130124600042002227901307500157062433413040 , -075000750700010075121604430701710053000770 )  
b= ( 700075310047504103004275000110400051140754706323663100040727005072 , 1030700610091013641750006476721260103270003141261706007000061120 )

J-10001000

J= ( 000000066207902105632600067760521040000006660737460501636197005412521/1070766053512555756505374000042200502400000000 , 0 )

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 16 Z.

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

u= ( 21541549011001612402046 , 600071172570170070 )  
v= ( 190000030001005210010010000000 , 1634150047006600004542720000 )

.....

n= 51/2

n= 51/2                    b= 25007537005

a= ( -13004177030540000047670000750007710057000775007656037 , -2617574100506001200701160141007705104100071140000 )  
b= ( 47130477000000000017707700754217017427500020427641207220043042033754307550500530 , 1090700475505071672307010000067752750003476105504743900300904104202311500 )

J-10001000

J= ( 7627000041770460010001007700227156507551651007544622410816750200000062007002203041/07351400063237540074074112755906156204677133400570251100000 , 0 )

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 16 Z.

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

u= ( 1170210000700730020061070007 , 330075007005710500074 )  
v= ( 207046402717530604616706134703706303000 , 100000550006272000070100032007952 )

.....



.....

S= 43                    D= 2915105

A= ( -200434001307042000003377040075001530214271002102212 , -5630270705537630005770000000014401706023360024 )  
B= ( 1167514301370900440633207704011120156430406211071639640351161707956164501104 , 4705065407290902750677505725922001725561203436  
0922615040100133316076002 )

J-INvariant

J= ( 7501676440670150163322050002014840165079200209504223085542370044650471704653441/307072260160603601233041216279053310705344075  
3640000 , 0 )

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 16 Z.

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

U= ( 055120759000702500615150 , 112601777491727300062 )  
V= ( 305365506007663672614252042255300 , 1706766162777910341265001761792 )

mw-P-VALUES

P	mw-P	TYPE OF DECOMPOSITION
5	1	0

.....





.....

I- -20            D- 2296010

A- ( -011753477102033149940521007650003901001412    -006100970070556237607076013400730643000 )  
B- ( 30253367637717004200000654097010000045002000070000000310370051004    , 1136463707000440376275154136700673044406452537077000390  
63707040 )

J-10001407

J- ( 11000102640310010011242064330663704102444005220000033370166004241/1536370300005100105147012520643626740061200 , 0 )

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 16 Z.

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

u- ( 102639209037700020670    110016100067074632 )  
v- ( -056257000206706005120655325620 , 100015200037724112000070076 )

mu-P-vals

P	mu-P	TYPE OF DECOMPOSITION
3	1	0

.....

D= -10                    D= 1205113  
 A= ( .54427932612400744002115700007700010077902 .5124024073011000054544002174272022346 )  
 B= ( 0087956500129006710073017444057671367511111634015120063683776 .710566720036091300004072310213074260015463079040120 )

J-INvariant

J= ( 164210000747692930022075764050640776510075405002272750020321/14905111600290660156059015011179520000 . 0 )

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 16 Z.

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

U= ( 134630002556449020042 .6707025902209950 )  
 V= ( .62167116053004214206680540000 .74290570570757500509000000 )

reg-P-VALUES

P	reg-P	TYPE OF DECOMPOSITION
3	1	0

.....







.....

D- 17                    D- 1307041

A- { -6090317081273179620022210671670010071211902 , -611204121021022001471090071260031570000 }  
B- { 08126300021110217107617130413007076712143479126644140037340576 , 0510717206164100006355132270150042002700612701354004200601600 }

J- INVARIANT

J- ( 166210000747002900020737660506607765100070600003227270020021/14003111690029066401360690410011179520000 , 0 )

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 16 2.

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

Q- ( 1510027310007770613042 , 71000401517637510 )  
R- ( 1140071796307504004247070400 , 0000075732000340063024040 )

PH-P-VALUES

P	PH-P	TYPE OF DECOMPOSITION
3	1	D

.....

2-8

.....

B- 26                    D- 75974130

A- ( -710213490711041000074406273160470495411007    -10479003104000000573750134473113241305410 )  
B- ( 7200463617127542271129612070054600956000633419639134005764003752754    161070000230171001203009531952623352005005600376100495  
56277004 )

J- 300001007

J- ( 1190010040010010019011242064370063700102444007320070033370164004241/1506370300095100105107012520063026540341200 . 0 )

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 16 2.

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

U- ( 1500000013425321642790    114050754742754000 )  
V- ( 10000700341570300464000050000    200410061017100663027100072 )

W-P-VALUES

P	W-P	TYPE OF DECOMPOSITION
3	1	D

.....

.....

E- 33                    D- 2796833705

A- ( -3764130077000022611510042095771016195610061075091000    -3770536452201070310406377646723077090062953000 )  
B- ( 104000791567007040002717005011060277320332710336002743270036704004270640073000    1203064130000000057064637000067564206270475  
2700737001002610102757420000 )

J-INFORMATION

J- ( 094036002041566750020932465000247646091630901200733916437367002731004456061/629407500073045203626070207969002907217540064000  
0 . 0 )

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 16 Z.

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

U- ( 07600001500001014300444310    37502102007004907750 )  
V- ( 22404072763615370071046001610077000    0605070029000757060326170000000 )

REG-P-VALUES

P	REG-P	TYPE OF DECOMPOSITION
3	1	0

.....

.....

I= 07/2                    B= 20762637007

A= ( -83100427000110042043072109910734209019112440450090203079077007    -2620000200100570237209500700907003102790002340213009020 )  
B= ( 252277500577007070000360213773490001340500016475710071400743472000000510273330213100031500    , 13795000717000005140000103102  
392007210013001711042907020070000055204010951094025020600 )

J- INVARIANT

J= ( 347063100445013027012957054077002442210000100670215230711361500997011651576150273195007903201 / 136740500050009516252020607907  
0999753047500000536250607561009920000 , 0 )

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 16 Z.

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

U= ( 5260750043542700050075009137007    031007620010023310014000 )  
V= ( 1076330700002077530537000707713110200753200    , 10230097200431504603525231050216420500 )

.....

.....

I- 05                    D- 760102983  
D- ( -19712602300405100200431037007077757130075402105002300     -31002432721300210002090000117504004274230040000 )  
D- ( 3371504104475700001130510467200000170070044100075707213050016300000050070000 , 0170754044002000190400070000741000151500  
67057439163050404370000210010000 )

J- 30001007

J- ( 75016744007013016532209000201030016507020000704220089942370044630071700493041/3070723601600430012300012716270053310705340075  
3440000 , 0 )

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z AND 16 Z.

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

Q- ( 2562610377270973300170070 , 200043001200000771400 )  
V- ( -041634540700077507104004001740000 , 1700000001275400100654649470000 )

mu-P-VALUES

P	mu-P	TYPE OF DECOMPOSITION
3	1	1

.....

.....

$s = -73/2$        $Q = 2464921385$

$Q = ( -102000077705700015442700111171310074051067000107567759307, -2041143071703214300672715477000727005201571761010060 )$   
 $Q = ( 0011740000710714320164530113400011206190370244010416203070395762700023007501754306, 90300067000066737000740012069007075100071100007200067047705003042310030410 )$

$J = 10001007$

$J = ( 711000601700002121227000070000070006300070706700006315621701070232042002511610953103041, -11320605427015950115205042:0312017142007616476510079037077011000, 0 )$

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

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

$Q = ( 2467762600704066733307027007, 10000066120757000700 )$   
 $Q = ( 0642061247175400527007001001207021200, 170100112630500040150531065005000 )$

.....





.....

a = -37/2                    b = 1632750829

a = ( -5020010240104547320902200200404375004750011267531 , -1615067070002001040004101000251113000650042170 )  
b = ( 0470011700000001401150117500057010451012750046170175200004720001632750042 , 22000644050631600027100236702200606057020770005  
00005422710030030705070606 )

J = 10000000

J = ( 120000022367420010071527003000454021544475175227000000790262570002750090601/1601416025600225050056277131040431005610000000000  
00000 , 8 )

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 16 Z.

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

u = ( 14012207301544434075236200 , 10570700043500471012 )  
v = ( -0470011700000001401150117500057010451012750046170175200004720001632750042 , 2233015047000200257030750000 )

.....

.....

z- -15/2            0- 827985

u- ( -74956471301002404171064963954000075    -10010473964700713933001095400400 )  
v- ( 00237310004277134930631024105901349516178711833012750    , 171606346679647024064576209530950461734106317000 )

J-INvariant

J- ( 16099574950277060006901006374761319441007621707132321/297210670363641064021079527267710167040000 , 0 )

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 16 Z.

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

u- ( 15206097140761035    133600070000 )  
v- ( -2072444293400610041000    , 140302463024127066000 )

.....

z- -7                0- 20705

u- ( -13642630076740107374000672    -259007052422420443180104 )  
v- ( 24612131321709792402373101617009546176    , 57043201900954790095514057950146000400 )

J-INvariant

J- ( 10913662001599612601774907106959516641/6263003610702627546240000 , 0 )

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 16 Z

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

u- ( 22013431079063    21990449510 )  
v- ( -66876400000000000000    , 24110970027000000 )

mu-P-VALUES

p	mu_p	TYPE OF DECOMPOSITION
5	1	0

.....

.....

T= 0                    0- 203  
a= ( -101004144375022070027007 , -19070002616207202070044 )  
b= ( 1366075704011510706470004005004670014 , 2620016700362067169975114472167932 )

J-INvariant  
-----  
J= ( 1140001101272470290113648526834303042005361757051042000264064001040000 , 0 )

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 16 2.

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

u= ( 104120567000 , 1500200072 )  
v= ( 8375670411008100 , 200073614000672 )

mq-P-VALUES

p	mq-p	TYPE OF DECOMPOSITION
3	1	0

.....

E= 75/2

Q= 2037901305

A= { -0410111054367220017090470164064317765000102310004075 , -012057030070000001004716373427007541161120000 }  
Q= { 11230072500770012167515477502110003057210706701250010050040210752030050700 , 50002775130004001642701004204052057057422000007  
0651570507017030007001030000 }

J= 100001007

Q= { 1700010057567012007330050606720070000137001300533007207100210160153606101021/07033000007000200211202770010000020017071421500  
700000 , 0 }

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 16 2.

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

Q= { 303300000007030007330013105 , 0000070007319000000 }  
V= { 426700031000070004571270000001070000 , 707004104057100700000100000 }

.....





.....

Z= 64                    Q= 54179946

A= ( -075000013114497640998707115029105839991175131075754 , -1600640979154502964915320646273477140151875696 )  
B= ( 81578252002550000372446010407416026420643622209023522797403502403704374910992 , 91240600677333707600640617309260847211309792  
4166332624370915263759551072 )

J- INVARIANT

J= ( 5453440639424006309267307525041337117469079264209676254016637600954201354001/194011006321410977005942045428670044506035037500  
00 , 0 )

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 16 Z.

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

U= ( 5007507604377536599095074 , 52254295540900720000 )  
V= ( 46009106337725505501320776007500000 , 2013401647900215751555607500000 )

NO-P-VALUES

P	NO-P	TYPE OF DECOMPOSITION
3	1	0

.....

# 2

.....

D- -00/2            D- 013400009465

D- ( -20714000200012002209241715423660620040141524000002222977730002007 , -20040001750752074070600010026102421775075006105815004012  
0 )  
D- ( 62902044300532001207200475040075004407575940075500142126070164300220000410066145007600450092054 , 650077000062006420047009015  
10003432003660072100400705200401361857070560051000070440520224 )

J- ISOMORPHISM

J- ( 1204265363007006540010043610005204075540520600670420420063290754005570071425154006100670151521 / 757201742007400541200170000669  
0003100722900343562710534050160640000 , 0 )

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 16 2.

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

Q- ( 21011400021070061007200017000 , 111420063057700002007004 )  
Q- ( 21711000021070061007200017000 , 111420063057700002007004 )

mq-p-values

p	mq-p	TYPE OF DECOMPOSITION
5	1	0

.....





.....

z= 55/2      b= 5500095/5

a= ( -197206109140034714750477575000100042000270570510005007    .05176205413750036411004750005072007211204750475000 )  
b= ( 4200547500007750100190110012200312000002101190500105707901356500205057742013500054    2700007007000019027515660757507650074  
7001941757000500063332750052405675002700 )

J: Jordan form

J= ( 0054007050072025522505145764070263090051000001007955576300110063325190741722704101204020427520205463500275066150135220205009  
000770507020011200    0 )

The decomposition type of the position group is 2 mod 10 2

A generator of the position group is the point g=(u,v) here is

g= ( 507501617717610000001070503    12710153451201007501200 )  
h= ( 2707107025100200000010000012017501104000    150011700027500000170342027577001000 )

M: P values

P	m <sub>1</sub> -P	TYPE OF DECOMPOSITION
1	1	0

.....

.....

D- 1D                    D- 2d3D

D- ( -261120113700270003476200224002007    -15001270260774200001402024400240 )  
D- ( 163502634016750001150050076007004001703001001400000    , 1471270440675001136070277000445000017901620027950520 ;

J-10001000

J- ( 25070600001007000270220637002703700600547561007000705217062103003275541026254407002174156000    , 0 )

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 16 2

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

Q- ( 0070000151360067    200020190153700 )  
Q- ( 1707420202031550155042000    , 0153700710120427420020 )

Wp-D-VALUES

D	Wp-D	TYPE OF DECOMPOSITION
3	1	1

.....

```

.....
z= -13/2      D= 4703
a= ( -227370979763661904279630643100007 , -001767300006240701617071706360 )
b= ( 1348347304472001570003170007081543975271324360734 , 0314270005763661901140637641013105276633064907600 )

```

```

J-INvariant
-----
j= ( 40757965100095007001902766706043060191163724627601 / 105627910409108440003099106557032000000 , 0 )

```

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 16 Z.

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

```

u= ( 0909441176436400 , 290002301230000 )
v= ( -1012702640420043207274000 , 10271066411292278475360 )

```

Ng-P-VALUES

```

-----

```

P	Ng-P	TYPE OF DECOMPOSITION
5	1	1

```

.....
z= -6      D= 546
a= ( -100070300570000051 , -1066000121014716 )
b= ( 120160110790720017720012400 , 24460000146100420044727060 )

```

```

J-INvariant
-----
j= ( 207106512020200751000600042001 / 707700000703750000 , 0 )

```

A POINT OF ORDER 16 IS Q=(U,V). HERE IS

```

u= ( 1720121161 , 13062120 )
v= ( -301541107000 , 21057006700 )

```

THE ORDER OF THE TORSION GROUP IS 67 MOST 82.

```

.....

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.....

D- 17/2                    D- 96432065

A- ( -2010061200211090102207000002701011164107 , -40002060511271310103712070000017146 )  
B- ( 10721102317514106100517011475557000615753065603021020750020650 , 61000630406112770325020750400750070650704071445500700250112 )

J- [MOD]007

J- ( 10254030752207540260220700550517057070031052516343753700700001/007726051701437507360000264040557106373106000 , 0 )

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS  $Z \text{ MOD } 16 Z$ .

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

U- ( 000706307006570169503 , 10047015000420000 )  
V- ( 3954009630000063000063070029020 , 51706097049470113420020004 )

.....

.....

z= 10                    b= 360100

u= ( -11420100306345100008744014540011575347 , -20753643255263225071500135700075740 )  
v= ( 4047653043501606207751757432200700210101061100115010036 , 12012361307070200551403067006000410105043067000001076 )

J-INVARIANT

J= ( 3470667015075009700600101005100095469577000032172010707021/10062065000347055271076092340610700000 , 0 )

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 16 Z.

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

u= ( 121210000170007217 , 3600054010006 )  
v= ( 24001722110100727953200 , 120012706782000004300 )

Wp-P VALUES

p	Wp-P	TYPE OF DECOMPOSITION
5	1	0

.....







.....

z= 00/2                    b= 502956090705

a= ( -13711040052217000600016637501009663606496785797205359763635671507 , -790442526060837272355670934444406110700071065600900431400 )

c= ( 61006104300075775460012244410176076737334092709100022732782190407994073102279056202300260500094 , 5543451709246082905500640370502775463054030530033307054070932304000767091562900771240 )

J-IMMEDIATE

J= ( 104092200041000509600010410400000073777002574024605090142793002097050207324954720633106137121/31024500002077047912405061542709400170375000737697045004063606000 , 0 )

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

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

u= ( 67504070101045000950167340067100 , 1054043677676006721971116 )

v= ( 65081312007070671007650152044014920000750960 , 02592613204617645099706706051430234002 )

.....











.....

D- 0                    D- 112300  
a- ( -37345736522040194900004620540016 , -12294570754103140007106000072 )  
b- ( 500630172105167662221057617209962264077094202672 , 4465710962210057095902572106136246054036004634 )

J- MOD 1007

J- ( 7027901304112404073630040101754195190811302776017021207740011020100000000000000 , 0 )

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 16 Z.

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

u- ( 15074302167007004 , 0165217001000 )  
v- ( 20216103677054340000000 , 9504750600600000000 )

mp-p values

p	mp-p	TYPE OF DECOMPOSITION
3	1	1

.....









.....

S= 45                    D= 1007071465

A= ( -004340613799990753776600297227121236579201757330210200 , -1104505306701405477336502405120002030053110030400 )  
B= ( 325770100001033715400500300016021750401011702200517312220954102006004495007544000 , 64673106005054366276105004770050519081637  
2090140061115253070055220044400000 )

J-INVARIANT

J= ( 64106502999070592532230629706620331290277625000061170019400579102001501030104001/16001077702390520940130001012706411070361326  
0151040000 , 0 )

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 16 Z.

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

U= ( 505908094735000115126395430 , 362720030151690766370 )  
V= ( 1000434542207001060554172540002040000 , 42007630020261007715407602040000 )

NU-P-VALUES

P	NU-P	TYPE OF DECOMPOSITION
3	1	0

.....





.....  
P= 25                    B= 600017  
A= ( .....01195716206075767550010031057540167570071440 .....270003405211371540051005721001060102240 )  
B= ( .....3560320012662710065266062030125532464277157666562100254906050076120 .....15420201207027502650702001715000640030007453105700700065740000 )

J=10001007  
.....  
J= ( .....1705449005450020101010500006500006540064042700045461041010000712110477653704705460271020035772720742400000000 ..... )

THE DECOMPOSITION TYPE OF THE POSITION GROUP IS 2 MOD 16 ?

A GENERATOR OF THE POSITION GROUP IS THE PAIR B=(U,V) HERE IS

U= ( .....5506650102275100762054 .....0555103200047010 )  
V= ( .....2000152626705700070561126000 .....109541120206232500557760000 )

THE P VALUES

P	NO. P	TYPE OF DECOMPOSITION
1	1	0

.....



.....

a- - 0/2                    b- 0505

a- ( -3907077070607300100010007 , -107547070301000000100024 )  
b- ( 70607506017007047050754150106472420326 , 61130752003190110230475460546001240 )

J- [norm] mod

J- ( 2075475000630000751232070007232140705701/51130042317410007546200640000 , 0 )

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 16 2

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

u- ( 274410707227 1533000000 )  
v- ( 154100005120032000 , 15315621247500076 )

mp-p values

p	mp-p	TYPE OF DECOMPOSITION
3	1	1

.....



.....  
 D= 10/2                    D= 10E116365  
 a= ( -5075270757757997012079570803050014114311707    -1150095001195000256509100507095004 )  
 b= ( 1000700574079701019130111191242301007547000007051200007104301754    51000304307172707751010003205742000070201030032900000  
 0000 )

J: 10001007  
 .....  
 J= ( 23400132000707573057902770210505710000023000072200002717012041/120522217170770000635741425071000700023100070200    0 )

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 AND 16 2  
 A GENERATOR OF THE TORSION GROUP IS THE POINT Q=(U,V) WHERE IS

u= ( 00707374220100000000    07050700442306520 )  
 v= ( 117000700700157020753011002520    31130037001006010400500032 )

.....  
 M<sub>2</sub>-P-VALUES

P	M <sub>2</sub> -P	TYPE OF DECOMPOSITION
3	1	0

.....







.....

X= 91/2                    D= 67051053105

A= ( -27076400002106651679006953329006000414351733571059016021446254667 , -145220277660304006604691646640273007670007390653275201640 )  
B= ( 175007215734750033760041509510962600700027253060301413000060056150075357039616715095020620323654 , 19007000095070200536500003075600016392140067753300095070353635101005100935770942004555466060 )

J- INVARIANT

J= ( 30563754707140626101701001002703326470700573648956001055440006502070099900271193400573707350561/6402146374640532065715570103930754901045002037510302670764546040000 , 0 )

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 MOD 16 2.

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

U= ( 9560103252105564642603302264003 , 2537000001221735472007164 )  
V= ( 100002001606005650337300269311400222017053200 , 12175473773006026600137024060931367000 )

MU-P-VALUES

P	MU-P	TYPE OF DECOMPOSITION
5	1	0

.....





.....

r= 00.2            0= 22510105

0= ( 527762066200456617057006207074812075400601205400007    54007052100055206270027625752076600060762070000 )  
0= ( 711918200005157262610066617025105006570005710200572002770650700020004206200444    106620100000210191000050557002067520012007026  
251200200020004200005161676 )

J=10001007

J= ( 176676664405706020042244020070023755210068711518115150001644700415165062000700412076306671000001605344007000500272165511701  
060057550640000    0 )

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 16 Z

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

Q= ( 1201056077570007272000707    201055705055310000010 )  
0= ( 18270710200270000012105063000500000    50010177500009007600051000451000 )

THE P VALUES

P	nu P	TYPE OF DECOMPOSITION
5	1	0

.....















.....

X= 06                    D= 17951990

A= ( -3517391403021647631951640290790511562362506161095147 , -110029902515100655065400055151004004540770056216 )  
B= ( 754095794301072626750050830042050047010731606500095700062460201023067070307254 , 123450271974209911901204900600640002905454  
002303275515457040000000403560 )

J-INVARIANT

J= ( 44016209516070761604503564100590240360030645020062099510003000430961013100401/70100226733421166010590014292739062961529640300  
000 , 0 )

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 16 Z.

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

U= ( 100261790067370006770712688 , 170035671660151275700 )  
V= ( 11640005001060990116237040099527360 , 870055073051060456700073003220 )

.....

X= 05/2                    D= 765717175209

A= ( -60066490004247906736546106510736051005300106216007071370576971 , -32510675241033309077650170539921370150500650440290441760  
)  
B= ( 6670640900777101500830957540006113564270200010670016053061026724158060618273990419567515066230 , 4050119535615050505976952520  
70631701706667000235175070001005327000702520706355034650 )

J-INVARIANT

J= ( 00834309006167002004006117004275000456400000601136441609463400870651049913102117202015169950001/12650002760501501763216117471  
511007053001510400010010000000000000000 , 0 )

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 16 Z.

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

U= ( 100000151100104520221100100071 , 34301904560420001753660 )  
V= ( 570770000000001737257630477002001061250000 , 6600715050070520007013104194700250000 )

.....