****

I= 87/2 D= 61390870270

A= (-1002054970177001395951993011727225072211603559222531016536 , -0646232362108953290780018751001044127007466375161 60)
B= (2051333780957770026011275519677171142494072059401667965177800507877466867713321652887232 , 4400072546262765565131709354646361995
4565845680058763103075905853336775146044 16)

J-INVARIANT

J= (1620248590078706530393500514390223166103645520194911504804868775062020224332105052O/9690163620500956273312577688770010569115816
9307300000000000000 , 0)

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

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

U= (707340021765139917549131 3736 , 1000465020757215121 33362)
V= (-2907401041696097546321111922000000000 , -65101073900096916796565000000)

MU-P-VALUES

P	MU-P	TYPE OF DECOMPOSITION
3	1	D

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N= 51 D= 16912752601

A= (-10171011056327820000040797735051765000133653816407264616 , -702153201077696911799277376782790023114104553064104)
B= (5504619517877705064475106443696401757282720403576122105223279001000055523005320 , 020301400104999059554013906385295113984602590239959007317101400003207072)

J-INVARIANT

J= (206253287990837010697446094970112008364109573010131709738765380734922794001/2357464900849702516947764361910945512500000000000000 , 0)

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

A GENERATOR OF THE TORSION GROUP IS THE POINT 0=(6,0). WHERE IS

U= (411748044964119487000001206 , 31664399194306044004)
V= (1544013956275260556150000000000 , -1107274071126150000000000)

MU-P-VALUES

P	MU-P	TYPE OF DECOMPOSITION
3	1	0

****

****

B= 117/2 B= 2470191500649

A= (-1326722336011505317142908155435005701730155405436040161960320054 , .0427777526755103200294000363021529610095595611107600094080)
B= (0111020276001200071860450104226132001606427170031627164006455522565079511001052650107066777627192 , 5200401031137215990021165737204
7660257577000016770463627000557744004561004640000010%)

J= 1000001007

J= (0332700362951263004110555701950591372782551960735714155170570632161597654750401731653297570101679540395627016593979463990004670
1351764247006700000000000000 , 0)

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

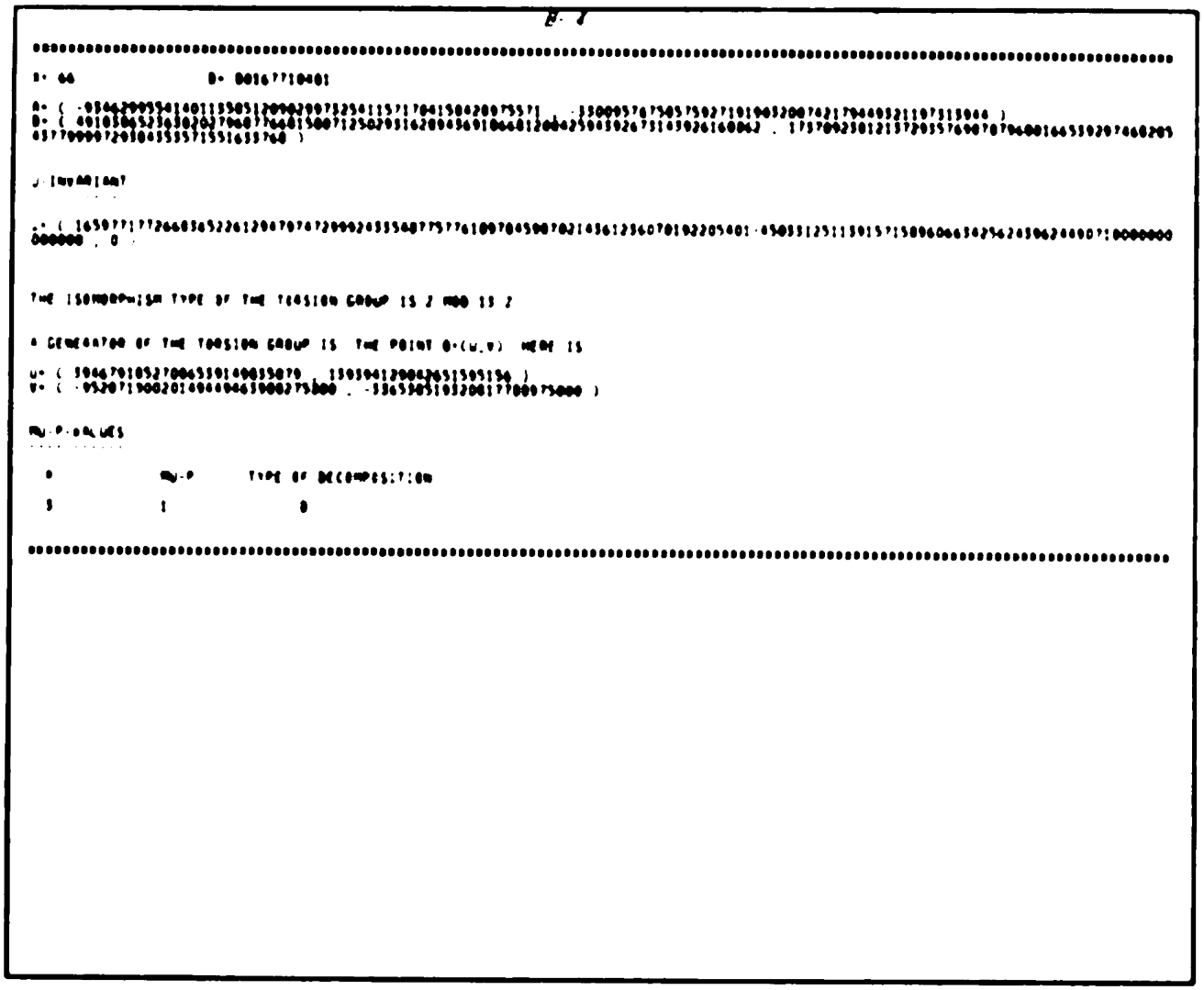
A GENERATOR OF THE TORSION GROUP IS THE POINT 0=(U,V). HERE IS

U= (67023650135552271068159594210174 , 2907001911671007521320002)
V= (-2501670181323760940910900079577000000 , -1615996535105651031010905600000)

ORDERS

P	ORD-P	TYPE OF DECOMPOSITION
3	1	0

****



****

a= 167.2 B= 9817551450369

A= (-0584540466755826653463096290690624859906641916520782162918956776 . 26759505466522645753396666755006140585454071911387290810400
)

B= (1321567952023363090665774566261677261413767415299546818466558256406345390073042909240404917442752 . 42177519750222302000011312431051539277387685916136146781325041024276836891438104647976536)

. INVARIANT

. (7836226190594693561480102010065730924501356652646811717977711337606379666026322211032710729/661356711902965187102261:3701601406423294633099335102410000000000000 . 0)

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

A DECOMPOSITION OF THE TORSION GROUP IS THE POINT B+(U,V) WHERE IS

U= (11821272115000977356776000100214 . 37727899061134005867019222)
V= (61225940596469466252276587237760400000 . -2502367133178786651502918000000000)

MU-P-VALUES

P	MU-P	TYPE OF DECOMPOSITION
3	1	B

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B· 163/2 D· 1020707190475$

A· (-1006$7401005211030010014042306203221255126270343822616404427038A . -4463657838177112653000745009206709551061739044927365416200)

B· (1456150304491643912960704115401077906951300385547005446103216305393276390480071071000332184777A0 . 335737506720770001760223372176384501127955022450365720112616011327023587642104117058110A)

J INVARIANT

J· (6323769323013749112613210836521076662293600335296940017376844055909644035617775755036040007710172677225462301796200301759703570459034269052140511133824000420057A0 . B)

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

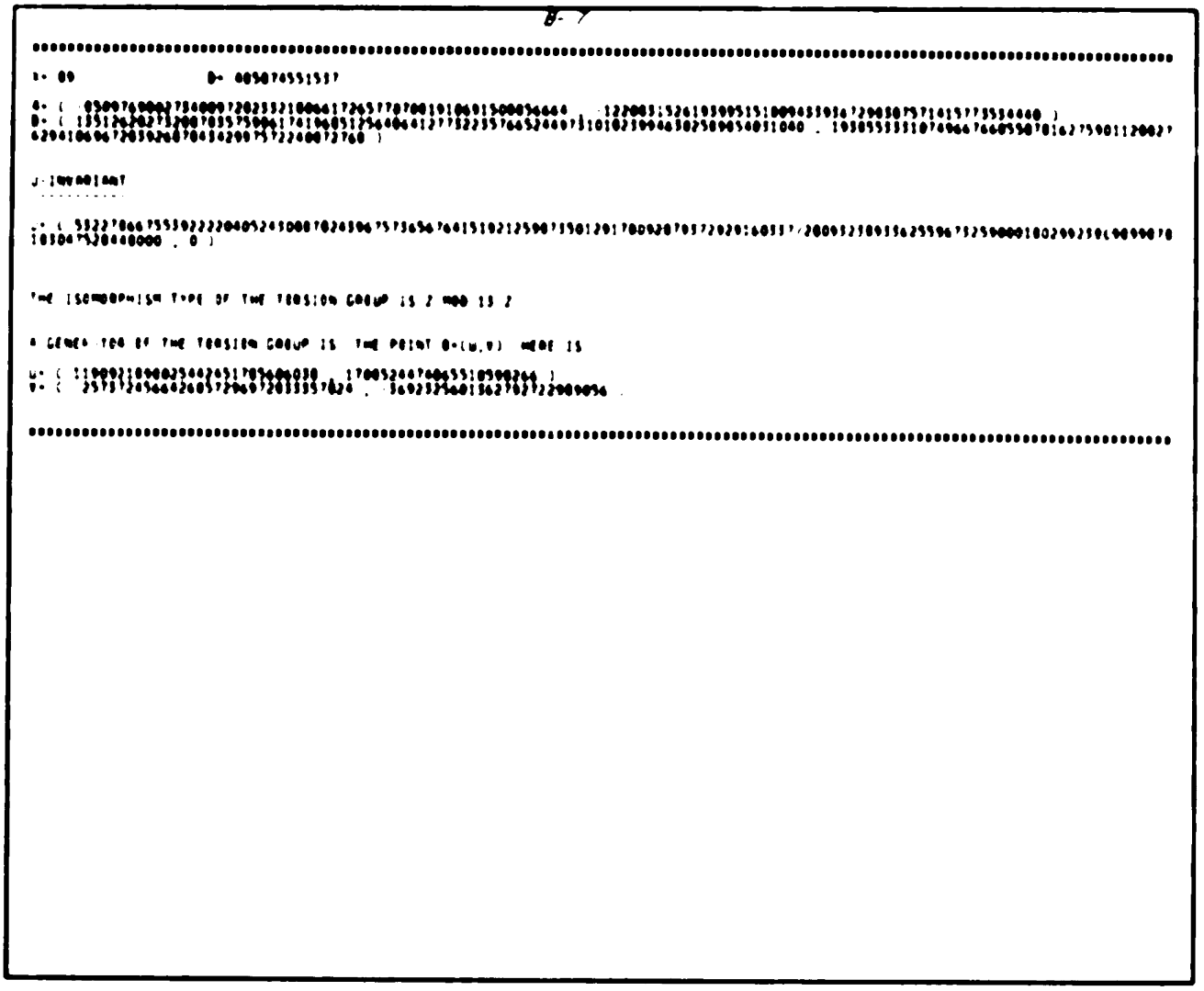
A GENERATOR OF THE TORSION GROUP IS THE POINT B·(U,V) WHERE IS

B· (5641100157062177337054067070150Z . 1510777107562001507450675A0)
B· (1635054553129600600102392361546115040 . -3364364357054207870975364154240)

NU P VALUES

P	NU P	TYPE OF DECOMPOSITION
13	1/3	B

****



8. 8

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N= [illegible] D= [illegible]

A= ([illegible] , [illegible])

B= ([illegible] , [illegible])

- INVARIANT

J= ([illegible] , 0)

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

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

U= ([illegible] , [illegible])

V= ([illegible] , [illegible])

****

****

B= 44 0= 691000705??

A= (-11915047000205?0060001092002500164000916593579 , -1433706427132736412722096772672205?63465460)
0= (22044207000103571567504736115617205936139600216200626021964622246071? , 2696336002035763715260654321667690600461567??5166300360
440014112)

J=[RVAO[AnT

J= (526205207620177064633753936479920500903011073536499629942467095203012?7/1004553033592625076103232005401354550117006003?0 , 0)

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

A GENERATOR OF THE TORSION GROUP IS THE POINT 0=(U,V) WHERE IS

U= (1410420252730001106??07 , 1694268241024235824)
V= (-?6329256022650150311441260 , -016900490644700051712)

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B= 105/2 B= 1140115050703

A= (-6661930007777315429300710446917661966043111197060017305021704 , -6107391972766711076661156184055000157005713225455000)
B= (5000153305533317072154510927915577316062210767450823066270118065206666477635725455020160 , 675907339962819020551955117017252570554
005602750305037501216501600492735404107)

J-INVARIANT

J= (1907917435501719706629226430000161255200772531505646404820582653362055461078577163763073/1300401919775009190206999165290951310001
1934696557761695271624000 , 0)

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

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

U= (0406139361176521540565519942 , 0031051456812231706710)
V= (-1390107962055164647010169081054040 , -1297422456691640092220360064)

****

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U= 59 D= 40762612297

B= (-77622965791944754000931029916067760944704333231864 . -30446790867599035074618200731022013347193115460)
B= (37226164435354631887909907650331204040140136881275870140774731560004023509440 . 1043019203355195003954212332291066000827406751455
62056040868752542770436B)

U 1WV00:4W1

U= (1414012024169540061763065790999016301655087771740620390006706351552076902177/1689029402711376016696787600009902722017006779572
00 . 0)

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

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

U= (3596026049955194044105870 . 17015159527490001006)
V= (-5105625041737039675964414464 . -2568446916351270421900016)

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1• 133/2 0• 5369455312073

A• (-61334790072049021177665100532640007634206377746309015691964425864 , -2466077371500100019050777495695011361039727310696913600 ,
0• (2616710001550235637274000040702999450011000627677210655077311968291139673648279956200146641054O , 1120167073777426091006151114061144
21330576367551795582668097644112062772000701136955484)

J :wv401mnT
. . . . . .

;• (1005791117020000300511334079235099950055107014469263311064312625410230700447080357966831111044993/2470059704666464703910681525606104O
)•4469302070656326355277266558640 . 0)

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

A GENERATOR OF THE TORSION GROUP IS THE POINT 0•(U,V) WHERE IS

u• (5197259210309420620764591306462 , 1379763727961826466927136)
V• (6656040014211440516544003006265484600 , 2063750500556999000051432776544)

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N= 78   D= 15079760561?

A= (-201032000700270535030047125392442505504143033547017? , -7300430252050776430504694305009264401612674040)
B= (050152401056566339150707724530922540961516794755110020253700295710350400050510 , 214673006992656267776392114603611270024316096
0907605242105645706506 36712)

J-INVARIANT
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J= (213290121234056229445207221790537704340719701436550031025127492009637440000005?/127095711642469347077563213044354040215026272
00111550 40 . 0)

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

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

U= (22054209301440134004126127 , 5517041401324970504 4)
V= (-19063750777010214000960500060 , -49690003019940671432302)

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X= 82 B= 29663682481?

A= (.42780211079677704812397952737960826160935042992061125510A3 , .7856105136746165380546106077505575166060001496720)
B= (40179877265090467540000488311031500723223544311031726301442090867256134644750333259S0 , 8845807365259952401019377021B:0969056712
582721620009378081670775041656235752)

J-INVARIANT

-- , 1656190192223650839467687432511508871912500801502027565057056323310936593714894380937/2540401000034622679995054468271555640042520440
90156340761G0 , 0)

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

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

U= (8444748100006925490085669959 , 1559050006255112864690I2)
V= (-252405361771027866330531515106463? , 46357506615753556442361B6)

MU-P VALUES

P	MU-P	TYPE OF DECOMPOSITION
3	1	B

****

****

B= 89/2 B= 67608549171 3

A= (-5722204961050387701861595370801004210940622059614654699020 , -83836405371009906869192346961315009503475028027753136)
B= (7458091260820726879043466553172260120014772496636001210900651571361611367303070676960 , 1001219264343991474942000161520035562
771162262606976630570541101561857659040404)

J-INVARIANT

j= (5749964920075016205493266865591310061368765337002456095613009400376396564161597673/1091131223500879993625965099768941744494154
5120697630056407040 , 0)

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

A GENERATOR OF THE TORSION GROUP IS THE POINT 0=(U,V). WHERE IS

U= (97657607509283574712309004776 , 141715632260866546859356)
V= (-61037040531483910054255522426003712 , -595511135753906971470595145660)

MU P-VALUES

P	MU-P	TYPE OF DECOMPOSITION
3	1	0

****

****

B= 52 B= 19017240017

B= (-1101000003007040002105050599200245955111068401555963 , -79002500002527566569164054617541045001935 6200)
B= (1000071030374693507407100032029206972012748000015742807367785016533620460 70 . 1443767621959477162021796052705557737548206532679
72056837652921064032)

J-INVARIANT

J= (65475407675355001407463829006921821112297791768978509754692537158867942577/4167551614827276963409216739272929280279465008762 40 .
0)

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

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

U= (1555165545258076004554 9059 , 9826938206360512562)
V= (-25006540000697982050001955392 . 1077000957794000874537344)

MU-P-VALUES

P	MU-P	TYPE OF DECOMPOSITION
5	1	0

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a= 119/2 B= 27450852265113

A= (-2142605464644727163259000420612067119712002752780716546565770960 , -1295244685609504849463554864967925963848900847868290648376)
B= (1707264640031106184583944631030596000404000940800600825763553012091500006536831655595450774480 , 1838448794077690155736400279402
1553025751004585600420911200004000914102635741065116515044)

J-INVARIANT

J= (0000709594000648464505220651650397951252604390931595045963617540561305511182300563296337951620004492077667004461273336200165
9318560173379602300010093200 , 0)

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

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

U= (597590390367092432776020116376 , 5406831645535054390953376)
V= (-333500000055700000641560156705305232 , -201341752687207062002402756626 ,

MU-P VALUES

P	MU-P	TYPE OF DECOMPOSITION
3	1	D

****

n= 149/2 D= 10650600206315

A= (-1227762700577119369504139345500052777040000277230053430505557177200 . 37620589700681467253220570012401916800400549060907627155816)
B= (2561710010083206342177157933132417765115064497007771894956099004721496711975651096946685313020000 . 71753969040002003406065761350141142095402500212034955151277277065611727670290739166777223504)

J-INVARIANT
----

j= (1200211043536560655355301619106903250563201261455935916468333180652615633576162586355111309991/6040764634001625226234253644954619500100220943204701760160006540213120 . 0)

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

A GENERATOR OF THE TORSION GROUP IS THE POINT 0=(U,V) WHERE IS

U= (1453047934900101915534200152714635976 . 4503214031773268776192699 4)
V= (-9960790017024132456535500006322555211152 . -3052143740937000004049707752440)

MOD-P VALUES

P	MOD-P	TYPE OF DECOMPOSITION
3	1	0

****

N= 165/2 D= 196920900124169

A= (-2101309700500011900150430454009203340187603953005335537051074907774872 , -491542256730656300706050214167440047525270730059002222277400)
B= (17537310000466031121925323590000141742000751130561535652689722051530644226407440748007319291770716064 , 39519211619496720045055479290407010992595420125460031410502700656191054950796051077454761200)

J-INVARIANT

.....

J= (0424104510610162116510790769978204941995620912211429660532826540004033940650900227144790433549-1549115251131049160005402350636750435506440005954600235027000000000000 , 0)

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

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

U= (6029636738200123726910900377625180 , 1554739751784202792759960450)
V= (-6642025710007225160214562119263230300400 , -1044231165135751701111820206660000)

MU-P-VALUES

.....

P	MU-P	TYPE OF DECOMPOSITION
2	1	0

****

A= 90 B= 5104095400241

A= (-5902546250555752106915579095963640055825364075155095907 , 018777675758116700340203045359579771140454190227000)
B= (2460446700116707260410334651562977107605510162044999135559870000734612345029160275534 , 342412270235270171235000452744795241905122490000256820579695536791020012770790400)

J=I0V001001

J= (0545852020460755954350465405472096305199164000423010001091254677392263129732505721/80920C7330:1040465565220093005042265730030:0000000000000 , 0)

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

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

u= (3:5640492768712021476611906231 , 6550010350600336826000)
v= (-1020053197465574002060025404004600 , -1426047674606951205502000400)

MU-P-VALUES

P	MU-P	TYPE OF DECOMPOSITION
5	1	B

****

B= 195/2 B= 5585023736B120

B= (.2817737050120151515621367665566605555772182195529709030682007460652 . 32946505196165556119062356660228775127690285016510009114520600)
B= (2046533690527559051001790827420000197290033437313494938605140103349350063673239749038100257561050550144 . 27881715500100937015759727005051605751277203959901957392479053217034005356952955001012972996800)

.-IDVA01000

.= (1112466787300417602767022710184900036113651179945203617602196106350240056311004772990240579891662401777020777613402695837730:6875402227126070107002107535030112180000000000000 . 0)

THE ISEMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 13 Z

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

U= (63670022925565026615220626162646630 . 0660735759387166605716255O ;
V= (-57648306010057721005205217006450259696O0 . -7855489567777660305403379216102OO .

MU P VALUES

P	MU-P	TYPE OF DECOMPOSITION
5	1	D

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****

U= 65 D= 7958639721

A= (-2826822346901050225465167220091711157672577506 3512 , -3205021851644723997783760501678775109225 6200)
B= (2725711661586791984017461770504187832413155047809965605346754013443726 2016 , 5059192924959354119403277399375643726651115696537
5054337844034842400)

J-INVARIANT

J= (13748317218358200683390196901716023875513316371830001275075017685011617597168528601475255536902749916839600000000000000 , 0)

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

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

U= (69044160200051004177 1502 , 7858932505100203650)
V= (-2311005577305256119658502 7200 , -2601661766040056106 5200)

MU-P VALUES

P	MU-P	TYPE OF DECOMPOSITION
3	1	0

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B= 105/2 B= 1209513103649

B= (-6205624111942410140501500761429954797478756559549900007843221752 , -5446777070000507627816551346872954502103519163275410640)
B= (8414751007090134676023447773500222000514675009771001073901037954510005015093020700640407104 , 7410174413220242221719076260041951738235554020757110550000075737096121654240367 6000)

J-INVARIANT

J= (6320939611335657242601734279656469263220392165777195478031177116537790772034517023113440924260390040191507340279355504073197010272443443159000000000000000 , 0)

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

A GENERATOR OF THE TORSION GROUP IS THE POINT 0=(U,V) WHERE IS

U= (1816999996975950041191409110780 , 0955796743261264237785 0)
V= (-5021967210177624217510315607555456000 , -4422612654106191015427 4995200)

MU-P-VALUES

P	MU-P	TYPE OF DECOMPOSITION
3	1	B

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****

N= 60 B= 45115369361

A= (-6320710760695102011771032119826576523549020597414G7 , -2975066867512177912644264837692042051160055576800)
B= (8640017936501660413777757013541271705034026554061227153774669528481050964090 , 607240646863496131825027104600977692579971005250923653671472314120154400)

J-INVARIANT

J= (2891201296095785761522107163616101202139768032241992769726905040416767906001/27648030323313575790691217891907552300480000000000000 , 0)

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

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

U= (1026377997649900153778485 , 485251011718015200400)
V= (-225655501660648246190401134600 , -1062401455167719738037600)

MU-P-VALUES
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P	MU-P	TYPE OF DECOMPOSITION
3	1	D

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H• 135.2 0• 507535787720009

0• (-757336501303557359007169791359629510502532600000377343459655535912 , 31244239272339510051195535458397572742000074019062100140)
0• (3507532251024995922171605194202032099174533290756200777053952350041642654439287527830007515771 , 1400051875165900449566533625561910053760140337302078506995772192267320001732624503290720)

J·IDVAR|ANT

J• (1095655367411322815713000457024601246541531300945640511254050161481591149946071871540842097 3022736261781000593047944262594582095900159262540933000000000000 , 0)

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

A GENERATOR OF THE TORSION GROUP IS THE POINT 0•(U,V) WHERE IS

U• (3552779431931100782070749648990 , 1465710126605520000705950)
V• (-22440938553650645005755400237512454400 , -826162947007312369136007372000)

MU·P·VALUES

P	MU·P	TYPE OF DECOMPOSITION
3	1	0

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A= 75 B= 175263252201

A= (-5525996223626647444327500431524005520532222321556004326232 , -1527000203033751453005500836000042023229572697950000)
B= (70671354757103506119766427899111115172105047067377920143091129716044130716055973056 , 16978153333597691557465675716158377060655
1955627763775002060200655625150000000000)

U-INVARIANT

U= (2899319365576750699315043061430905337550030620059723224065962583249552700006277/1656561004230530150096691024493706132012500000
00000000 , 0)

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

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

U= (9595134377046292794081057266? , 2305142777042270610007S0)
V= (-525453009160000042751600483200000 , -126229930017506737443200C0)

MU-P VALUES

A	MU-P	TYPE OF DECOMPOSITION
3	1	B
25	1/3	A

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B• 83 B• 31910864783

A• (-11094096483869631562819216091503842004959002900497971672 , -2109508753759501000040675940190938113415263800400424)
B• (70626044560933643430047284022025421373886555315530205644542018339334573157477864000 , 12502460517377121632342576149244642699569312053461594402346027112213712500012)

J INVARIANT

J• (27680604967337794725971073859052664775923622092095459246030724051501670374073511:3/3659700829479355950644594763774007626512875685099797 5040 , 0)

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

A GENERATOR OF THE TORSION GROUP IS THE POINT 8•(U,V), WHERE IS

U• (44527325003207813715457498 , 7802370106950619430954)
V• (8982069702184714118441031767 , -1590036470195954111312804)

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0- 00 B- 0670543765?3

A- (-0076687100265120125464002625107102137914561165753794?7 , -0616163209040066427230036301672403942065280375?8?4)
B- (1237?4005166210241620140947345236450877?7?75550521617655[5021143254624413995057718 , 13287527?90?:44:91:2025451696544020715?0
?6645591:0145377?004?0?0756552372543223?)

J 1??40:4?

J- (3140692177300359?1?024120592406553507600000412512657918320194818726177269904262780?3 4a7?0363291444040897::0004?024?4:50224063
04:0440?0605?96000 , 0)

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

A GENERATOR OF THE TORSION GROUP IS THE POINT 0-(U,V) WHERE IS

U- (115662491618092654407693463?3 , 124156400942020746027?)
V- (13744563306021070204606500089?60 , 1075607010926222011140160)

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t• 91/2 D• 5431700002337

A• (-1327123917736005201712171661906819090071165106904464911832 , -1000707576399012340555161082065000809901160451016B)
B• (2631643331019971371170256353073873229437701271115626363509005264059402250269632015697920 , 3570771346837065975050997571039159658738
1242306823070177221573866041987297512e6)

J-INVARIANT

J• (9686272357370037000090:495591025252291905606705704754267117609150023213884470487577/36348759200220387187325002205496100067970450966060226216365e0 , 0)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 AND 12 2.

A GENERATOR OF THE TORSION GROUP :S THE POINT 6•(U,V). HERE IS

U• (1407236767713767717672320830 , 201795463519467937003427)
V• (-212001333513415000045764650067000 , -2000479555347997340000958169e)

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****

R= 53 D= 2133557?513

A= (-3?32?99?3?3?4?0?13?4?05?1?7?6?07?02?02?61?82?74?22?97?52 , -2555469?3222?03?03?03?4?7?615?2?5?1?855?22?4)
B= (3?2?5?3?7?13?5?57?9?11?7?14?5?42?6?3?13?4?14?2?6?765?1?14?6?6?2?75?7?6?6?7?42?4? , 2?7?6?6?3?6?9?5?7?63?22?2?7?9?1?9?15?7?35?9?18?75?4?
?2?5?9?12?11?4?2?8)

J=INVARIANT

J= (1?75?7?6?4?16?25?53?3?4?23?5?3?25?3?4?9?1?22?5?22?5?15?2?3?5?3?1?65?2?15?25?9?3?a?7?8?3?9?/?2?6?9?6?122?4?8?7?9?9?15?9?7?24?2?4?3?3?4?7?5?8?75?1?42?3?5?12?
. 0)

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

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

U= (?8?7?3?6?4?2?5?4?4?5?2?1?7?2 , 5?9?8?7?3?1?9?4?4?6?7?4)
V= (-1?2?3?3?7?5?2?1?6?3?6?5?3?9?9?3?6?a?2? , -?8?8?6?7?5?2?5?3?2?9?7?6?4)

****

****

T• 121/2 D• 3035509150977

D• (-0237068082602279360490690116750791601632123551264469662359983 . -2052376901091504257768718577868231025257176772070064000)
D• (0700701243150469090648000030731161120015460564223607900900033500370117250825960156029601600 . 27254325134960849933994707003945325
651114810750254017560501975246.5:900051035402620)

J-IDUAR|ANT

J• (1000617705233101057126106126570254400456875290062467662574600252323041202762302934363017·1550559906600019:6000203560007952110723767700405766109312451174600 . 0)

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

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

U• (8404225509564667940957041900830 . 402371810365552350012#2)
V• (:5809597349581958653020092155463060 . -0123707555340040072650531:9936)

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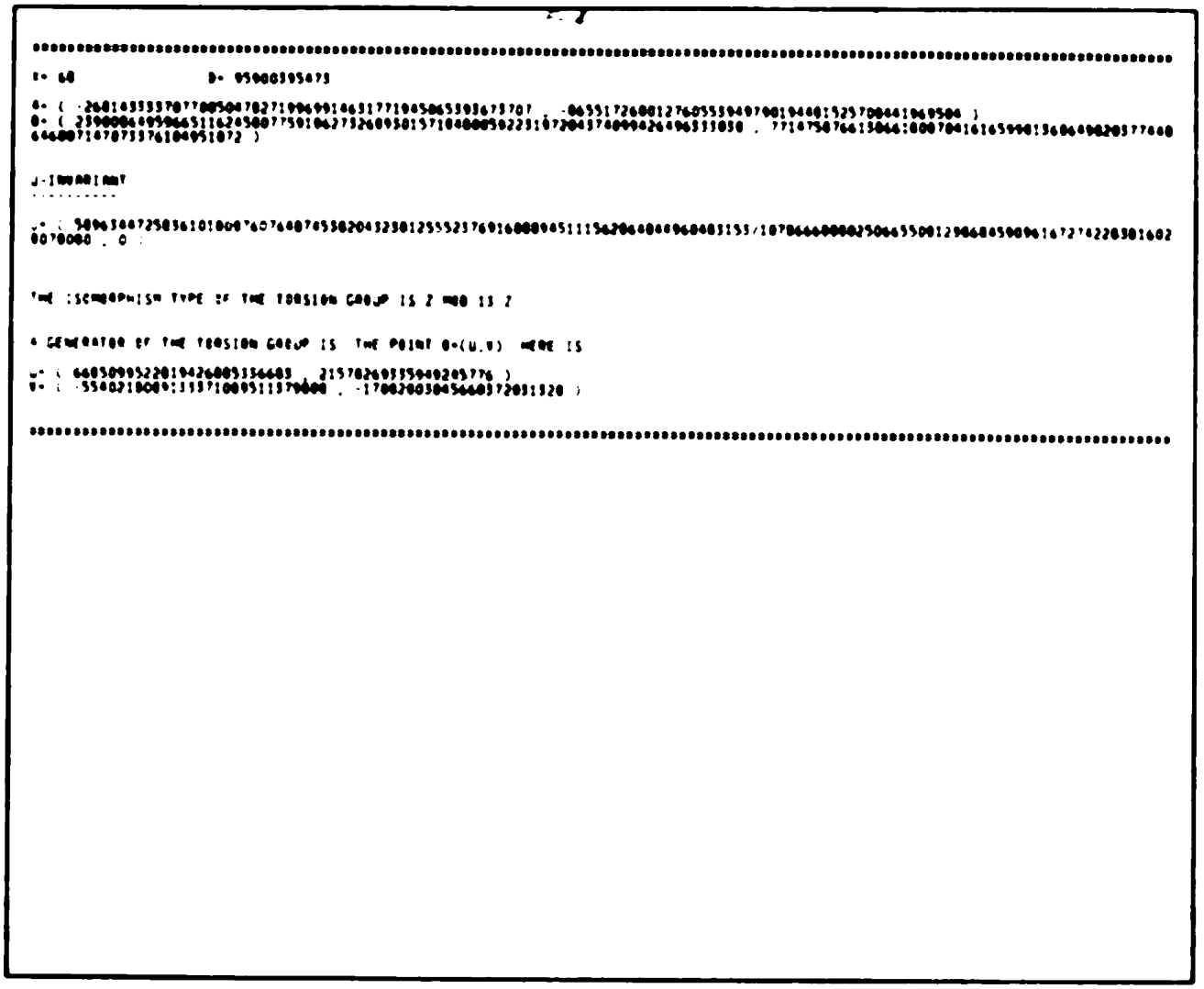

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B= 151/2 B= 1154192751821?

B= (-2200107035555326767910000091044072913048415195706796205837137752 , -6499782617820011391650154426291887982047644650067982000)
B= (5648135065040807866342469900775000731525404405119022233442632000906008156132186190911994926033520000 , 1662573041762260121751016511850054776845952061373940062647672100250583139501274473150)

J=INVARIANT

J= (21972707405400999810641605566062171416762183323432708075602941590083270517205100551055430645?·1011387400518047?1266092743905656695636?0006258041157136974449410240 , 0)

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

A GENERATOR OF THE TORSION GROUP IS THE POINT 0=(U,V). WHERE IS

U= (19184:059161901701072543590043? , 5646023410582232088900942)
V= (45116999009196220061?46967750005?960 , -1132000007752074492992704254976)

****

****

U= 167/2 B= 211754129775049

A= (-5063925044072412679268590622411654944849683527201251413311246052546 , -6450274617033069230833377518320629256380147987590966690600)
B= (2910387822046237301804452736290035677059000950627417174101304300447163719370:07803377119053479699 2 , 6344000203254200160109794775155341906510060401900106807801107455225060370011031821921016254)

J INVARIANT

J= (157010355706551645755137703903253821562018097831174258774760454067530745950757:4879541022503291010189950848877663873392331753931747619047206961457616370000000000000 , 0)

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

A GENERATOR OF THE TORSION GROUP IS THE POINT 0=(U,V). WHERE IS

U= (71460047629205053390775123002574 , 155201309350152317038427822)
V= (-5546248093166963400497308015497900000 , -12180475242615184569335945600000)

MU-P VALUES

P	MU-P	TYPE OF DECOMPOSITION
3	1	D

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N= 91                B= 555455726201

A= ( -12094274172701513202259600960833641909045149504523605269536 , -17301058915720472302204857957533132255367011264277304 )
B= ( 25203361701644550017226736520623532002623011952669208047000594706900665015035595901225600 , 33016809647695736521205045610352150257
7401568670018330560660370764797221471307735952 )


J=INVARIANT
  ---------

P= ( 1363902120236544553100226939631009093391728601410716449116993003336953646767510906401 55746255071334795869330508052452694377305
401000000000000000 , 0 )


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


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

U= ( 1465962300995660403597832216600 , 1966971667051017561617400 )
V= ( -97155061994978971044635571200000 , -1303567597670050662760000000 )


MU-P-VALUES
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  P             MU-P       TYPE OF DECOMPOSITION

  3             1                  B


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B= 1972   B= 5727079711454 9

B= (5222797472572339072076012062619562050931400952501060901068982981976 , 42505055504431355561547506756274360636219056721259320800117440)
B= (31402000465097067662197149672208316067040062916112006121809195444346175213555216020517301781017596435 2 , 4161467022350677160821000524072155295003462229744209008251983401856327450253102022972400440960)

J=INVARIANT

J= (17131765644202904926524044235440174200367091641420355252040115095752572177040745900801960782197729/2304197432742120791099050365019174149580323400833158061100000000000000 , 0)

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

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

U= (7520035203007550744949975110506614 , 9680443454277315210175871222)
V= (6725411402071171503929050619885296000000 , -8884297081492760515595654000000000)

MU P VALUES

P	MU-P	TYPE OF DECOMPOSITION
5	1	B

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P= 44 Q= 9866666241

A= (-561251035963079006110301151790083190779235636211 , -3503852000307504000955101502001252061356359304)
B= (1005111078284644628079436954124649661110372572456000967376904341721954632502 , 1139594290850699625344611572027402613691073620400671
00876716611632000)

J-INVARIANT

J= (3511716095046779356797247762013351751410150108729001771822491613113034017113922382995924146156575472228289613000000000000000 , 0
)

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

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

U= (2584051627021291503499959 , 2584595236503314596)
V= (-6041201000790232574105775000 , -6246211431113039675000)

MU-P-VALUES

P	MU-P	TYPE OF DECOMPOSITION
3	1	0

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B= 107/2 D= 1445134005009

A= (-1050773000503110000053056900069585654907852784718503480095416 , -0007429745459127204551550429065654574103331552330504720)
B= (1075200115440955520002604027051407520109276720057565502621000126920722171687755000417350 72 , 1559961675030040092673796590007442001615005461210026521967503422507831260067925577 6)

J-INVARIANT

j= (9669234322056461610450065292337479659463152171922210732090613177799772196710703960632 9/42209452368441111243463656361222534115172315636249000000000000000 , 0)

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

A GENERATOR OF THE TORSION GROUP IS THE POINT 0=(u,v) WHERE IS

u= (1520391246227689710961030154094 , 1105024565212538004530582)
v= (-6601002311161125317744534621024000000 , -5550335405069764772041920000)

MU-P-VALUES

P	MU-P	TYPE OF DECOMPOSITION
3	1	0

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Q= 61 Q= 490445095721

Q= (-1615003162055003275002965045770148595320965079142549 , -722030911692918525276375563063801810057184504644)
Q= (1115035143696235410659019501521501770746005642356949513555007063190020847004762 , 49903874325960352937120205260122644931910667007171004209275045700411000192)

J-INVARIANT

j= (5030304076515439022000372632555259723150469501906418065360064545460944470014486505887885655234754276771944864406400000000000000 , 0)

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

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

U= (5104204719733722791040011446 , 25229548190078421117 14)
V= (-2511780111173770522035668000000 , -10381251243476869632000000)

MU-P-VALUES

P	MU-P	TYPE OF DECOMPOSITION
3	1	0

****

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B= 197/2 B= 64201790969929

A= (-1147273576841840111186001889820929040410100820822068675577739736 . 45270644785561317190146358364917171011660404790819066256 8
)

B= (6680017003215762005900022670636559009364601753460954907610068350706880469:9425901902870902624852 . 26399155052422005720555405245 3257075030435500745003500716472700356:2505405054783767401)

J= (2722543232437599914268211836491436430440761569124619875071121555590340761916885572013587334521510237690211969679004244547:7493 62668759402316611000000000000 . 0)

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

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

U= (4372702442064522168361211744134 . 1725775490671535241145242)
V= (-2005290046783332066669345899660000000 . -1186355490720657535926146144000000)

MU-P-VALUES

P	MU-P	TYPE OF DECOMPOSITION
5	1	B
19	1/5	A

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U= 76 B= 107661396401

A= (-5017881790822995001695351705729764271934438209824180900S1 , -11501470606934327163141775016729508717525496616824)
B= (1934371691877316772372006572733004903024535791949272008669737057519970362130925702 , 4465310189489531777979006403460350009971619
0560074657054710004005710469343644B)

J-INVARIANT

J= (66099600927790662221:096256364640049408751575355907046127914092206035413451926301/27087732773061984:0052483309500000000000000000
0000000000 , 0)

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

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

U= (2891678229827760440356855139 , 6675172505395732951536)
V= (-882145572605072042165312500000 , -10516790757997253125000000)

MU-P-VALUES

P	MU-P	TYPE OF DECOMPOSITION
5	1	B

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B= 84 B= 562902436497

A= (-8441590152831118407416879097358094190835905690055550206 , -14414126273390660410151629465100105534180462023024)
B= (1335056078355270950851673201738179101145562106383633505910940101666577017976550177590 , 22794250080547784087524056068295934755
5168662467500343069402021056320096 2048)

J-INVARIANT

J= (459775122823099732040765673652709106924100311332694653301255517178244592487000977/5:923011155316784407640045977171910131607224
9492578746080 , 0)

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

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

U= (1106141514425297705133240963 , 2025155224495736157 3656)
V= (-3631700240511403757604847550016 , 6201108961104006446925110)

MULTIPLES

P	MULTIPLE	TYPE OF DECOMPOSITION
3	1	P

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A= 103/2 B= 36741796492075

A= (-4059197844962547574115441013976397003544063943232222520902707737304 , -6663692290001592584263259090242960347402061379726854122
77000)
B= (1397351944490669866710941340726044503372367182422733997760004449484565066443840748030181149640642240 , 2305290231214234287999340
887991324917190301301701578787503994501759576227849203119179382284736)

J-INVARIANT

J= (75649331021381920004288741944530951014445415709963390001821274713075513946029232018173503376761057277377126899488351730944015238
29089291215137036767701952852607773280038400 , 0)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS 2 AND 13 Z

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

U= (2594669111501446214114057010547561 , 42004720345859388723544542)
V= (-2212936185005944174555380655374954394616 , 365000551824013798279882354404200)

MU-P-VALUES

P	MU-P	TYPE OF DECOMPOSITION
3	1	0

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B= 99 B= 922554525017

A= (-1304611205536930764927939908722063692054409204094293872484 , -1441557082483640863464488563020708089468232272551065;640)
B= (8864059605756500354046851110311520104008797082784280702051594480137887957917063795155514560 , 92333405216598069081706284215776472
7:321594205467327657800597521405091028470085072)

J=INVARIANT

J= (4025942801613903870490565652002958737512111962905533015040000167750072706850141820657/62840:407581262970280048275302414:16501093
200:9161088774144O , 0)

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

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

U= (4003837564328040667407934822 , 500140787872257126487S4)
V= (-3460207007201690250004417260026400 , -3602518005103220855048355072)

MULTIPLES

P	MULTIPLE	TYPE OF DECOMPOSITION
3	1	B

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B= 93/2 D= 619409818233

A= (-1991572713175004609929997879008561483997500062105065122909044 , -25584222864276002254586266099005621400777049787727000)
B= (4037995360457256815520010850220103678102136970015612103000617433200017652454705276095040 , 61044731004458726904844811115035016260456475379955005050264549673372167766655922217536)

J-INVARIANT

J= (2650040000497435012754409387262815712940957665112499292072045990000994621610631764337600559994089068243076071021550301417682591766735070030201792044 , 0)

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

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

U= (1021091297106655710975700071844 , 2314031356853235511669442)
V= (-7991039742645151320361775507526454 , -1015311365172753159191320017600)

MU-P-VALUES

P	MU-P	TYPE OF DECOMPOSITION
3	1	B

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D= 54 D= 230047066457

A= (-32079350021551767351406213116211110392697005565550000 , -207563916012062397217561100347073291077205240)
B= (90009672772501036757494003500955707907755104492938247093733400669046032755217900 , 63991344720035436137320296600462571600351110391789075007000000695001440)

J-INVARIANT

J= (32671106019065730009216931090824909257649066104717779528345602559562750177-126074202173959292377190129952505744961097165250560 , 0)

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

A GENERATOR OF THE TORSION GROUP IS THE POINT 0-(U,V) WHERE IS

U= (2312227930906744052001705 , 1496152170058420707%)
V= (-6586771907501350577024429976 , -2966506791546075724914%)

MU-P-VALUES

P	MU-P	TYPE OF DECOMPOSITION
5	1	D

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R= 123/2 Θ= 3351100073713

A= (-5456520146000691593094676362234545732237715299166743044981700 , -2900727864261969019261031137029714657075176923561325140 ;
B= (6938046932970000800046770154877429091020405816823804937071252386692169336467111095721606422240 , 5790037232001094756003074854755
9560622155503094616807753252244065051581700879400207056)

J-INVARIANT

J= (36320736843090102932259826973514073625155103105996435705905990967200918632950004331400155/2506103033701600333206634666766390000
7109459335053234554201103616O , 0)

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

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

U= (9536355127905996915711;5914990 , 5209411429735993730717O2)
V= (-5490097561002704612519777116806347776 , -5003917750241931137053710599O0)

MU-P-VALUES

P	MU-P	TYPE OF DECOMPOSITION
5	1	D

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Y= 69 D= 1000121307??

A= (-52403535757406665067067660052705207094606617230116711304 , -16211276410017577755992010610774110167831090335240)
B= (20696553370221539036720601105644952695269199008347163703508036600105057963919511149760 , 6592010508756020035551727062301046512143652030701601024397751103420966657472)

J INVARIANT

J= (10950227637440431040670972409675304772031562559496002716790222457270255350477709716533462230212300706200321073259359959659546917 04913920 , 0)

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

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

U= (2957375745020920233145335702 , 9135452934002124905514)
V= (-1491013644980726353869700745160 , -4600269764637552502477 6192)

MU-P VALUES

P	MU-P	TYPE OF DECOMPOSITION
3	1	D

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N= 153/2 D= 124944661105 93

A= (-2502772039621017077508119404366690699225916511751630466002529250 4 . 7335093154209794041222335550396336161007206702161412154 0)
B= (7186374390834824186392809105531371228617500400340632574633176423761901173817726297172266900006 40 . 2033063707693437446360453677 643323764260791221054101997055109166540159409420015004152545 36)

J-INVARIANT

J= (3038977537321323897017066542119055107390967623317784843974405638679477752704184167837230807 3/1405624667643832754460309330903 4 3233067206096715555222152380955140000 . 0)

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

A GENERATOR OF THE TORSION GROUP IS THE POINT 0=(U,V) WHERE IS

U= (207877098667435734803130797780678 , 5080953775003332164312762)
V= (-1405787446705346439415911061463072 4094 . -42C3372058714902461975921916928)

MU-P-VALUES

P	MU-P	TYPE OF DECOMPOSITION
3	1	0

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X= 169/2 B= 227490395693113

A= (-529137377086336255093470280967240013056670394724005620029944935120 , -110937720965772017175991442233525268074600044669216562615096)

B= (662545596273099256570420495497560003352377252009540201336678121000206724456579624290220611296O , 1309877902246647782998627799 84907548362299964295000023643917606664012003479924378438129G)

J-INVARIANT

J= (2600157581171590236218562766609003994755716296823338980009741311502341200500839700830735004188233/2715703200320303644569315560000 0225109227967091359815082714623767276000 , 0)

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

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

U= (9390929818218979290425502406406 , 1964880000417616332219706)
V= (-2460004305503345278510943415258102016 , 5174561225613937397418201607O4)

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S- 92                D- 5052405503217

A- ( -1353757212095346101602705732201602395252612013749602116J . -175761717415130005617026022413010149604512901423601 )
B- ( 857381054039701054213749000407055054290340951505505377212018061051696024078040011900 . 1111160500310549017750710161544534512319259474704176016450001320002340951516401 )

J-INVARIANT
  - - - - - -

C- ( 21664122570695119053311662350079910203365400851994905700605316353860748040099109007697/7594220651520785300380697559046055957600942522790001972736000 . 0 )


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

A GENERATOR OF THE TORSION GROUP IS  THE POINT 0-(U,V)  WHERE IS

U- ( 675001265004867325546191051 . 61670613703433192212B )
V- ( 5305583120405469087977690650S6 . -6885775099959487601936S2 )

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X= 199/2 D= 600616728583 13

A= (-5208164715239970513802264967095152976816748229991868220075346701 60 . -677046860783264910935952277555601659762690485931906059246 536)
B= (6619396697550521607086600537775457690018810683594566224246960720995965403422529732038461207935720 . 8484894883603243620655312 77165338069918457694596800825120469717826999542561600713555321 8976)

INVARIANT

J= (26266949851595091054328965005644823475044213875700041088761456821926382626066501603277384665:8593/320130135463099:5?:C235970 705602117938832110668436352767362620308275 20 . 0)

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

A GENERATOR OF THE TORSION GROUP IS THE POINT B=(U,V: WHERE IS

U= (9388066141410610117071615065 9286 . 1208380905567233904096 1044)
V= (-2099632532051540295500955375527090450976 . 3716615649447421501C702344090624)

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N= 47               D= 103252:0417

A= ( -120000231359353296231553076360494150304140534400 , -122079044423947125615301990623023532453240720 )
B= ( 25702052042000970175304413769641196027250501420924679240004634601152400400 , 2340045002642062634062030567629902075173350690740991 0
975000941235302 )

J-INVARIANT
...........

J= ( 07920000267502001949725622197772000273445050397252073930052117302344377/21420270255560920024051361040090641922619624930520 , 0
)


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

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

U= ( 14570701360000600267660S4 , 141500400602601353O2 )
V= ( -165950140053575051163678200 , -1633236607062030032416 )

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R= 109/2 B= 161610019151 3

B= (-2207956609330505133035900558077203110644896771006810486000826440 , -1736826396561722045100664900106117654040171940870510 16)
B= (3647405077199015901075410277797177661341124320033206800527440107729420426504496765330240 , 6442370715337216147347035013234500 70
660109923007752700351201977959762042726095936)

J-INVARIANT

J= (21273906267650035713974464121670751146822038691627206692095295042557300012047904149713 ·726538374005074196095250192962097603 81
3563113065524000297164000 , 0)

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

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

U= (191031579849721136050607000004 , 1500097040004510246424)
V= (-5275267661652546041029964057501696 , -257618005056071117375011211264)

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P= 62 Q= 540082702417

A= (-19718654903904006231995257664004332332105466742490005 . -848961745537676104052069616157707677646000720)
B= (4766427511538349783550935049606047236050146700119590045906497009067701290517070 . 20326737961093139121711396924107737500105001300720624977359795600400160)

J-INVARIANT

J= (0964203625347321929967401247979701005373717130700090200004206661400513370995556106234721451405000440520593440450055655305446960 . 0)

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

A GENERATOR OF THE TORSION GROUP IS THE POINT 0=(U,V). WHERE IS

U= (10120548049511036266607S1 . 7751203869422510040)
V= (-15719994104430456772696753S6 . -5051167120938672600512)

MU-P VALUES

P	MU-P	TYPE OF DECOMPOSITION
19	1/3	0

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U= 139/2 D= 70864461057 13

A= (-213267235144010864590966008503962291366625718541275761492713920 0 , 0057034917877232321700151000172355175594538664652015296)
B= (16953107631757135364293834944364032055500527357924936475000181022647737570105556078214328000 0 , 6004724106361952659133330354000
70403720212640346779987209715560020544602394472423616)

J:INVARIANT

J= (65479237900146079159913801555620000460351969078777131974702793648013640204680773943993727 3/0981469102584549041152692481:865525
90500291042096791385078481149440 , 0)

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

A GENERATOR OF THE TORSION GROUP IS THE POINT 0=(U,V) WHERE IS

U= (5961924118861861319969852180006 , 2252350679051738032920006)
V= (-1292315477214053111001953574200992256 , -4002245951796712205796720035 04)

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B= ?? B= 20504300?017

A= (-1413063618633267?854917?4407?44251119260465563999657?360 , -31003240014542029123467321249780131976206970473?0)
B= (2052?0551?0370?0?67?1?6447?07?0?92175?1340?9?95?90161?0?7?7?571?0?0?0852256?9520 , 655340899926262001604?397?931565?116004902
020837631?0693?00?36?7?9?06050112)

J-INVARIANT

J= (11506011569057731675051323505?9331535333350197956930552693205127312255?971603696572400657?0497?011603650?06524058?02:1197?05?5622
14905091040 , 0)

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

A GENERATOR OF THE TORSION GROUP IS THE POINT 0=(U,V) WHERE IS

U= (1565457655010122940657?40?4 , 342975627667681118002)
V= (-2095108424609927634001901?6?60 , -6424964455369207041662976)

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P= 85 D= 36032642761

A= (-1005606956007297148400822192943990834199444651984996774072 , -31069533533000876343663146209225113201206750352657000)
B= (1409418179211006075201232715004407649093837490277677537644620707001305349717002789975 , 2322327513404731639601097:3109007010468
6343075711154015672523749605597914512449600)

J-INVARIANT

J= (75907433044061257777025613354447960870320432000633944576995311609;767044993376228l·7356069535296567555910197763744662034035840000000000000 , 0)

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

A GENERATOR OF THE TORSION GROUP IS THE POINT 0=(U,V) WHERE IS

U= (5405959561362501097739706982 , 9257054037022241292050)
V= (-5473105007232027095261496013200 , -5722038403137344673940400)

MU-P-VALUES

P	MU-P	TYPE OF DECOMPOSITION
3	1	D

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I= 185/2              D= 3922726303660 9

A= ( -5486715023543779907070059455006876449929905574036450621867827115 12 . -87602883206120451567270720775612758376568302031 49:68502
55400 )
B= ( 22122373333059042040041444528765912112908477000897490660703421913248899691277265630565545333058849464 1984 . 55321984089060:87652648
77565552022759002382096570020849460817054307721420437906020678693920 0 )

J-INVARIANT
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J= ( 11905510030356105116060059795070400227900394573949748059860040041407740299365540511783144226009/3009403043684104324943554350
21527070268309943605044524905000000000000 , 0 )


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

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

U= ( 5025991573999169207125038019361 98 . 4828214688326207562571 9450 )
V= ( -2607010469986574710344401739644304 18400 . -8162447525320945259573107566 0800 )


MU-P-VALUES
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  P             MU-P       TYPE OF DECOMPOSITION

  3             1                 B


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P= 100 D= 000000059601

A= (-1140520652095082179699306401790677273095963623753251918427 , -1160123819207613940078484294778965485709055100100000)
B= (2118709064796164405512233803766105585480167586535186455571562575407046800884496871525 4 , 2140112280455718058209941600955093067369082509104711137951783844367284846914000)

J-INVARIANT

J= (7183291677746895143414664955112508437584346059795191233999540565210324450662014670001 , 8625068117823321641048975459119000000000000000000000000000000 , 0)

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

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

U= (1385546561151565017669526885 , 1397523162367714100000000)
V= (5052636515807864567778317746000 , -5083478240013644554160000)

MU-P-VALUES

P	MU-P	TYPE OF DECOMPOSITION
5	1	D

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I= 95/2 D= 704453501929

A= (-364101694236477049217010123796795644006826333616284420143 , -4338069503306446407304435123655870184575336739237260 0)
B= (11959063203045512790025866980052472701042605213038161411796942448458609296261925659245 , 1424855972680815811434391132334690 6020170246687281725151764172256470194696220800)

J-INVARIANT

J= (607400806834442402143150399532502891699625914561017570230036724518116220071559216497128604499507223666881604536124558972450675279070100000000000000 , 0)

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

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

U= (24634044705053265460034944036 , 2935009635145335032955O)
V= (-11031548465105261607091482591515600 , -1314323913127890053651166720O)

PRJ-P-VALUES

P	PRJ-P	TYPE OF DECOMPOSITION
3	1	D

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X= 55                D= 26602907601

A= ( -8627651312736127554101336480914841673968851165169 52 , -52017277069932825455623564979165269184477354200 )
B= ( 1370437574267927101330935113790791008585962170743104515099153458127007600472 96 , 8444723060350799926531006564777270150647307271012291212069124602134240 0 )

J-INVARIANT
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J= ( 71556301769170110406800761266465234520120225864561154101310479385367000 41/215917006487054389856260723459941839870000000000000 , 0 )


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= ( 11991421462348005017396822 , 7340900840338454015 0 )
V= ( -4841614406837574560556525 1200 , -2963968800516091253552 00 )


MOD-P-VALUES
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  P             MOD-P       TYPE OF DECOMPOSITION

  3             1                 D


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K= 125/2 D= 3693573749689

A= (-8600839500118132010607982095135331240393184590573299894599599 , -44791823547133805599709987640699594621402925114579125000)
B= (1574021477660190957427822042693350484335724475481178860101115450033110048504653945513630074 , 7153571472469316397917776952317665220554401140351331574030765452221700963411233000000)

J-INVARIANT

J= (72106099019689994622247682055605248421936179261514611770087265262104431639278311768237 29/401895473067015607515931526647260636091232299804607500000000000000 , 0)

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= (11978031213481412156596091385 50 , 623269643892232776201250)
V= (-701718705600454085248093999056000000 , -365123441016704654251632000000)

MU-P-VALUES

P	MU-P	TYPE OF DECOMPOSITION
3	1	0

****

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X= 70 B= 1143109953121

A= (-49244230490954769572049168063402359900536204228983507 , -1456503164167335690620045223201732320039006206200)
B= (59483449333007569238729926914662604756139219401644067110445001590829337072720094 , 17595499036163635955919951083716490953520231
35085591632139413115038990870600)

J-INVARIANT

J= (20102864430984044444067208434345050106572076578583723309306961194463824403636172518535349686664792031243606749359779541730000000000000 , 0)

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

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

U= (90594545019423401984655463 , 267952695100858272100)
V= (-2517555096860677263318937269400 , -685465136767343208641400)

NU-P-VALUES

P	NU-P	TYPE OF DECOMPOSITION
3	1	D

****

****

E= 155/2 D= 135116321352A9

A= (-37402064415029199667520067745959672112821883018123965354993713S2 , -10175169050497035017688392592027676256093650903877403926
00)
B= (12451064192707033211775305155580249563766694919277131134767059196487888164066116899895044971590A , 3387291449327795097030719A
3321648568716981166446362245756977730361732741694832161562920B0)

J-INVARIANT

J= (665039615448417589819662730564179671789611496268548530057331671761648377716465551839063972092171A436847307084190108399683279
9543644694005468945792900000000000000 , 0)

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= (2496733346447200082635550324507B , 67923218327201012713205502)
V= (-1807516297569018731312112609768629760D , -491751623442236806060387124992D0)

MU-P-VALUES

P	MU-P	TYPE OF DECOMPOSITION
3	1	0

****

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I= 171/2 D= 244206808291577

A= (-59717552244482605000750239171793274514462421728100677179518148952 , -12084362915866998939494913767337825417003467257800937527128)
B= (7943576981760144636638755326748818930291149480134710179996518762235028507232657519087312129922240 , 16874514690226404385859215407379784427025417301117152458472773287934484465252201560707672961)

J-INVARIANT

J= (42800258753560429392695512647472727350260161207515065075070048703491106329134129633351335481221?/3829212015716694412607485631557251267547245540718387079028509943800000 , 0)

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

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

U= (997643692172677066760944546243421 , 2018817845834617565862067?)
V= (-7057525642785545922397555866026719221?6 , -161027410115771819370789872670?2)

MU-P-VALUES

P	MU-P	TYPE OF DECOMPOSITION
3	1	D

****

****

A= 93 D= 653149664073

A= (-2379246392030751304533167315838383009923557507340662051807 2 , -2990103553855061130064703791039533455534877772306437 84)
B= (6317165294233113712071587557962180029516455417171179129809736 12467355000779005846346200 0 , 79590503817830453040668257846206396437686059089050096577530292557202126414060052)

J-INVARIANT

J= (3423705210137655510638184745099112237393289413901945740460389705375479885955108975 3/10137454915011416016645863280257305477186402251273915596800 , 0)

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

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

U= (19913338803463665673079100838 , 2[illegible]2596055523908710518 6)
V= (-13483737729566717402523741334 328 , -16945606064976960326035 4048)

MU-P-VALUES
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P	MU-P	TYPE OF DECOMPOSITION
3	1	D

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X= 40 D= 11726083393

A= (-1140743376877267659297668068757601509595083535387 , -10534448292355374926047502214390459061446144)
B= [6432000842472719956836466720756274171201565624239738300399074119669423900 , 61244706118492513755141767938048205655662144033420
5815513202727372 0)

J-INVARIANT

J= (215800461313900715796064088994922104035931976367860360343133057720046 73/397697061242062094217649156388048755929285297 2000 , 0
)

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

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

U= (4360319899346867184109 47 , 4026631286829129984)
V= [-77095349000768945072900 9536 , -7115934455546274760756)

MU-P-VALUES

P	MU-P	TYPE OF DECOMPOSITION
3	1	D

****

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E= 111/2 D= 100359074069?

A= (-2992004428549371807670072610460846674460402830388078291742 32 , -222708245919549120237894716162754841493004738834600000)
B= (8400538642126719726254274711202346863671752929951245676572303328252539831679960845504992 0 , 6633404753000021057034029657315626266120820490724902536327205806873401307929338816)

J-INVARIANT

J= (3548505362513898000432613446105553696674791613792509024625947455593394349473570865294 9/952410067511845210259512295968025159346 9474784747853114445824 0 , 0)

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

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

U= (22133862168553844403870522954 2 , 16627820223122780923767 0)
V= (-11643524062750757106102504904083456 , -866990700649372725617052837 12)

MU-P-VALUES

P	MU-P	TYPE OF DECOMPOSITION
3	1	D
13	1/3	A

****

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P= 63 Q= 60555905553

A= (-40164000697037091577454173563907781828476607926262809S2 , -16323671776005139443549660787319077956806642182644)
B= (4582203558727253100667138404643402011696787893381302687152293000000905903249600 , 17800421727257202541143494970358:05350201195628439866082500452420590766272)

J-INVARIANT

J= (2300222393375053224093434860777350329932775630187500964942891790040639260633/1153907232282579761213610123230542090953355526270760 , 0)

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= (81821764422514296374476458 , 9325044797009309009206)
V= (-377429073098000103965940099655680 , -1533784239917762071454206)

MU-P-VALUES

P	MU-P	TYPE OF DECOMPOSITION
5	1	D

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N= 141/2 D= 7636662603737

A= (-2505772137351651095511215001204102076232405557290306466287191 92 . -935703916947508065995012620840004050525619195000145568008)
B= (22633351720179901200994925226872041760960757255111592965062224620729863183990403865532699772 80 . 81902410650293 7:797992307656 1232405094510609765059624602997175400063975530750834001856)

J-INVARIANT

J= (1200690374025481768402657601812090312498756567806284906679326496112012771403275176125224977/1364000772263602303708199206038 4201414376352657276657451648004096 0 . 0)

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= (65647697025903105080044757047542 . 23755692586770904108325 70)
V= (-4329414183163597035058058745025596416 . -1566669294156556913808804718592)

MU-P-VALUES

P	MU-P	TYPE OF DECOMPOSITION
3	1	0

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N= 78 D= 219461354113

A= (-1044063468680446918165092660083728044105153770430154459O7 , -222068127O8442451070616231410238183850520385054O4)
B= (58070236054870811200003560633547446013461324004750178097002508366236179941069365l0 , 123958002758915970444785521207510735017001992304036487209941446502550870016O)

J-INVARIANT

J= (19884787595554650016024841044630085761894202695133343031894289973840558334600599 3/595800877680226516983016123446285809592560974852329472O , 0)

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

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

U= (41714579509379424236044544 7 , 8904485743109576620884)
V= (-11871662517731020074704338045656 , -2534151107323957419914616)

MU-P-VALUES

P	MU-P	TYPE OF DECOMPOSITION
3	1	D

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I= 86 D= 305212167521

A= (-20232554849683378717676444958049614952205651067594365 , -32183352344400867163170072059946536614512459345084)
B= (49537368994520576091385846703202200291813424776819686119975051080276764354349998 , 78798437884455457967801426721798005132646896729577150653567093856063609052)

J-INVARIANT

J= (12458168322304224119623232510788625642040182322552167245741453913239800049010050017103220341093935749535085326188071460399165269000000000000000 , 0)

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

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

U= (1836316752437859990387008911 , 2921005926117915779246)
V= (-191817903451705711662740925000 , -30512245527884202582500O)

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A= 107/2 D= 41051200346129

A= (-917875755127202800622775785278839594591191989817749048276426645 6 . -141759050362188409925817906938742879871850771576191145272
28)
B= (67804756436692107449505013810875397503261079575682541694806755166916462299512200226407775226540 8 . 7389524820574131479648307254563961477072041109303377504854116039527644234396197841004870 4)

J-INVARIANT

J= (1089415246044804D193748026184080050966270591253815164451496911427838774329403112886000391103335295213771475017477055516322057322449597546041378666095231130000000000000 . 0)

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

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

U= (5909551877906948626870261260272 6 . 6043277802595236074565238)
V= (-11354900501571058146697750030774400000 6 . -17552105599165102620245472000000)

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E= 97/2 D= 790963049169

A= (-81139967263940108467021321017505033926506265411046775096 , -907760917885563847842692762096356982751607671640000)
B= (39784632764419273252410550512173995025780019102291030561531148547856079050114011300 , 44509427321194957560184484477008363750
797360078111963710712026780147079071622 4)

J-INVARIANT

J= (14771626346993706489180566237187924019547606521079170915406806785729090920205552087297237119980495607962740194559909764999769960
7022794710000000000000 , 0)

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

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

U= (3677407769918165465220044646 , 611413400057014315125 0)
V= (-5601999390648823483402516440000000 , -626728083474652347030400000)

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E= 56 D= 29749017761

A= (-11
0= (655
52099272120710272)

J-INVARIANT

J= (153
0 . 0)

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

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

U= (42
V= (-29

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X= 127/2              B= 406472077689

A= ( -16664467300606205897833005103162718345119089668743894014421 6 , -825570401937025053047725101428090616687915584992250 8 )
B= ( 3696506379623429819500000201645062633329105742184534993711466910531178180781029955697297 20 , 1835370676767242827787445264479720
77007479500015030725560093290057500467650547347 84 )


J-INVARIANT
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J= ( 1415503057615424116896909713450297892121153615277601807441504381842616379333265341447172 9/6396459123606372085625135092073064 5
32611846925820125000000000000 , 0 )


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

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

U= ( 1665556320840613519999540502006 , 826120766152157357947 18 )
V= ( -5503596786648750046940625000000000 , -1634593560517978125000000000 )

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X= ?1 B= 124516551041

A= (-145103867462343729011010670092199052280121287253830896 , -411438397457609202210341106000569297020000944?4)
B= (952227356201016333383731924497304752314009562291900671150368102562943632350912 , 269852913740424539664490657059232162377745542494540470272058509544125412?)

J-INVARIANT

J= (3680875691705248570152420570667026075094028075399141629512600125277040762074013013441025294723042040697271252113056196500000000000000 , 0)

THE ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 1S Z

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

U= (401907625969926104551860854 , 1594023240073670925?6)
V= (-05071530945382551120524000000 , -241004742990299051200000)

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A= 79 B= 256971343857

A= (-2392842399637577626732374701951597717438023663153506025B4 , -491548270891300487143100337604427041720638322268B0)
B= (677139095552294718838441814864067147436670056970146670254737495344090750901950825B0 , 1500859336349760652941866742513746099014618659429877707017935780027790083074067 2)

J-INVARIANT

J= (3412411501602456345322041048766565130064202060535679467705835646904089088471701 7/864513317612477250173851739091134514376690255896866B160 , 0)

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

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

U= (1997015459723207885420586262 , 41023575245244400356545)
V= (-11519631471685580456687049937600 , -2364517627074965247658555Z)

MU-P VALUES

P	MU-P	TYPE OF DECOMPOSITION
5	1	B

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X= 173/2 D= 26192480731513

A= (-82082705490254278275511433573650405104865041646687001143476911784 , -16194025230870165642653787903796925154113621277759399769480)
B= (12980449978127505467014068257507890677406155310504530034507656534266233018525077320323263493965024O , 25370014803000203548325196600925765905770529755047583464256040576930828624622783301378719346)

J-INVARIANT

J= (70041333135460378094933228211040614395012126369088369370903642077182200146754324211536972223553/5377450564886958659362094962834650677422677384897979183926903226818560 , 0)

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

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

U= (11753205626795200161101288063757O8 , 22965117900191755075486082)
V= (-9482909621411056762103207736426870O976 , -10529240258604510246079380269568)

MU-P VALUES

P	MU-P	TYPE OF DECOMPOSITION
3	1	D

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r= 94 B= 675268166977

A= (-2000960075600901155532591907748567875777065915990866153088 , -2445969408549256874507892356194988655295439995156 40)
B= (1551125108996639009184338899116883271017121090910004697127191411948660046979194952225 90 , 1887594539200941163065894584602172500
1745035460621225495090279351399340545764 48)

J-INVARIANT

J= (5384048273751814981655241397904727790231588317790535507056609555954310623783951778971385129958807316317286011109270269551293
1566016653258752 0 , 0)

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

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

U= (5787072487198995652983082185 , 704537507449545287171 6)
V= (-1980370790466927902000090286 994 , -2459951894105550067 4632824)

MU-P-VALUES

P	MU-P	TYPE OF DECOMPOSITION
3	1	D

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I= 49 D= 13201800417

A= (-827486455054505233336452200045004404697502752416904 , -2041170102194674427062706690858190337709533640)
B= (10190907610166926845717305511522670956726757210646235252176239532880991610540 , 8049604767200574363081989169264787072143007266434979995027016805067072)

J-INVARIANT

J= (400110706633403079039501107745201699900079324095252217597780755575643097560463550384663894113577666203449641361209294040 , 0)

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

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

U= (2336080965392575920255622 , 2027020345092127503)
V= (-8424596927152304009014591400 , -7510033103074573611827 2)

MU-P-VALUES

P	MU-P	TYPE OF DECOMPOSITION
3	1	D
13	1/3	A

****

#2

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X= 113/2 B= 2000004659053

A= (-4959231911160150600794996896291647799119173705078300293821044 , -34909433953222064203245307585917204000655594215220006400)
B= (1901011474510555431000016162004467187365003991600640105206615547054552250239116927108065048 , 1341242205564049715903220290252417402666044002029972332544580297006242282644591459136)

J-INVARIANT

J= (9063820038456742664459654997890476638957624532055547781076962102079996203123201022911372089794572640786548041957307603695275395250643494948494459150040400 , 0)

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

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

U= (2074958525078926705910280809658 , 2028402245701705805725222)
V= (-1525408265422421400069556287542653936 , -1076295117179297000240284984040)

MU-P-VALUES

P	MU-P	TYPE OF DECOMPOSITION
3	1	0

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N= 64 D= 665002703537

A= (-39170966656866100752797844564275955166546569325422999 , -151820775035011772885725001401314597595256765040)
B= (13340009770001672619158719904382455092125140305019785087207145129730645109919O , 51730142770286684444926851715010207606684589
44633692253944611564101012480)

J-INVARIANT

J= (44913230206445256774514015650165013411365040780164446441862550242012047055377/10297546205352549313235567276793305553087984336240
06400 , 0)

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

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

U= (25555527046256853802942725 , 9902662674490671515136)
V= (-590550237150671013764065477454 , -2319578520030001670512644)

MU-P-VALUES

P	MU-P	TYPE OF DECOMPOSITION
3	1	0

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d= 163/2 D= 85134259047033

A= (-58484251443326584958975818206066039031662499744196935765409090 4 . -1334720708677990845253152739471832108462432652894934501000
)
B= (41094876222990924809321708491229490573569018690755945891587302086420501351457720084769449110 40 . 142527169496223327653108775
029446231154117065322659650320025550610612621515032422681556)

J-INVARIANT

J= (2102700665514827890246035769268000151478425290727296051736734521507:819226430974:501607:635 295922501246:226457093:81622 5609
32952635576410536000089263950165204 . 0)

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= (8000771584235028434194016956510 . 27776395050893571235459O2)
V= (-5355466429191203041500994374557305056 . -1057407085457100492369501483000)

MU-P-VALUES

P	MU-P	TYPE OF DECOMPOSITION
5	1	D

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I= 1597/2 D= 15753027051513

A= (-767436901706251012052803277204587358018442823175780427572700400 , -19355242810558003740494402675410875095402251109644122166
96)
B= (365954531022249842249206517565040512003935301910992976210446701072074379244420769269424551137995 60 , 922006700475110414191066071
90635901651445266977644029153264358120305991893495990455574854)

J-INVARIANT

J= (19609654146934300406448196300000552639742266367914509253677153307179540500326970006185739551345754523455610
4812794810077765769455260240172051200 , 0)

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

A GENERATOR OF THE TORSION GROUP IS THE POINT 0=(U,V). WHERE IS

U= (3576396934245652129724290645277 4 , 90105703260130135537664334)
V= (-2655015005116020505109650754570030009 2 , -668919616591841079614655711 0528)

MU-P-VALUES

P	MU-P	TYPE OF DECOMPOSITION
5	1	0

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I= 87 D= 423715000617

A= (-36323256161645856444727471369355858327594942573357924796960 , -55001853489531362692387499635659574071653895307616000)
B= (37682548021594000040940000537535520000791505209004311686070051555858524073432079446431152320 , 57090055644109274000728419515559691665179855977804202462355170587366440315406000)

J-INVARIANT

J= (20320954539779069905520449157090722449743435700209284992647112757315580556827326177144679602858351393041160347771141899439917217457750478000 , 0)

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

A GENERATOR OF THE TORSION GROUP IS THE POINT 0=(U,V) WHERE IS

U= (778066579882740255917557 1206 , 11955097360316865056270)
V= (-49325054405116172073534553765017 6 , -757759280253089794480392192)

MU-P-VALUES

P	MU-P	TYPE OF DECOMPISITION
3	1	D

****

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t= 109/2 D= 446190841347 15

A= (-1002442407103467490830124701952590754982006810455497144224675104720 , -1500702910004405656676480009372604512304982429880545 71056136)
B= (5663264881782019935944508309082906078460768569109150500121437921124146425425015059153207922052144 00 , 01707616450479694216474 0408360225500200180557217025710585502929004631231740731069971270272 64)

J-INVARIANT

J= (22000403845195773087690558441570216932248475553751745794057524714759155790255745895161254103221/5470719260650141270571771027 5046841504450011600386750946601033551160 0 , 0)

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= (4007445404644636062042720700330774 , 611912503748691734692467 54)
V= (-3599144035515086970995404577203221011 2 , -5300006027912021999150163763916 0)

MU-P-VALUES

P	MU-P	TYPE OF DECOMPOSITION
3	1	D
15	1/3	A

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X= 99/2 B= 903810189313

A= (-11719698513554158579715760126731083428402722571164021470000 , -12327574557663676540091458023806975074232455945690826 16)
B= (69861736326763104476867973905225467140483150834524991597500952004290111077097054349435600 , 726430539266867639047291948028949906013703230139029960577638446327659109864231104)

J-INVARIANT

J= (352679158510688806576541276392240430644020022940531998137456456296430001030680904500393/431706391255056817646005071026262744199664035002021014049587 20 , 0)

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

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

U= (44195952935090270176876563574 , 46408325436055033906294)
V= (-2060437599090391349441567126240459 52 , -21673090772404463189951610048)

MU-P-VALUES

P	MU-P	TYPE OF DECOMPOSITION
3	1	D

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X= 57 D= 33105260017

A= (-237046053466031014010455245665524252306652675321760000 , -13020506301519343954966113711416094756223225440)
B= (62022064627052966449995383142727400167717401307504124536656719657973295595200 , 34520425117600625455049940875952750691150979640111416000035570527006257 20)

J-INVARIANT

J= (32620737701051610502223349242510010923400152160516703658796944402407971537/6151617330010421376252034383416225097441222102105 60 , 0)

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= (1907653702932000020644540006 , 1092459396410016410980)
V= (-0311092125276105092076960354 , -6567963000156525069590 72)

MU-P-VALUES

P	MU-P	TYPE OF DECOMPOSITION
5	1	0

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X= 129/2 D= 4466456381713

A= (-2096595142006007345110124316225519727664779771196433502734 8248 , -9920487786335637443334062072208904966271631909696742900856)
B= (5225505497765311076410425119564833420045419193020065469138993317561947623072948105553620524512 0 , 24725975002380003607307097932465
51506002376099069010127552612035665271675909612022741824)

J-INVARIANT

J= (27492738060391129644280015109602290075891245e707156044314620275991144250623107047045361531/10106070990062497538614091001719363
21746681090070711502702575616 0 , 0)

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

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

U= (1869311434342527742317002502174 8845044569044676029649514)
V= (-11295311584735900333530760350295582 , -5344617963258215630539414394400)

MU-P-VALUES

P	MU-P	TYPE OF DECOMPOSITION
3	1	0

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P= 72 Q= 135670392417

A= (-109083524346626575479559066931421572000002267240920506031 , -2963713117230221751521257810917255005307443552448)
B= (1961104169545079416000831375233604513311054939107079632166465326534031050846256319O , 5320174000346196337217094239211464050054716711051694118210077590665202341112)

J-INVARIANT

J= (667065460644467238932410712613600749358421949239205305021792085462209017500777/5740435204056279503454376019922350644901780147331091201 , 0)

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= (13483520493070021652052105O , 3663374077762115502721)
V= (-3546295441327025170606667457152 , -963502210371901750591104)

MU-P VALUES

P	MU-P	TYPE OF DECOMPOSITION
3	1	D

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P- 00                  Q- 255630374001

A- ( -26526013740061382306638063245382501316360007105737053?  , -52070538902175236102052653571540249669022707200 )
B- ( 2325201358005004822245655571644922601615752709154171636034555028010309225509095766 , 45908903904254036400702730525207760549202746
9372437457412579605574550144?0 )


J-INVARIANT
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J- ( 5015991653025220520960357290954605215000556619704422023506013274203140062107424?;2484981432276597;3055920790720471961403392O
000000000000 , 0 )


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

A GENERATOR OF THE TORSION GROUP IS  THE POINT B-(U,V).  WHERE IS

U- ( 662404003024077004303764?? , 151013076665234054600 )
V- ( -6442718151069691505394379?200 , -12742742435211510257?200 )


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I= 175/2 D= 2751695489

A= (-1414794122500915338749774527638201200431827072391611430295635032 , -269707523351938763702705136897730066665586223502560965550000)
B= (20966696415257023557037405027961614562429206625708037096270355732738495921939114767450705375065 , 55220012949665966413101015909777478625649135039775433059002044038022700663314254100492000)

J-INVARIANT

J= (11396790267089111050703195465997473076915715611024000475270156590494157635995469232217943712929/752205669452028544167961016844529755623968775305175701250000000000000 , 0)

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

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

U= (15355748775149213170930915003062 , 2927324120103962219923013750)
V= (-617703777411991075506402011943400000 , -796284416945605227250553913400000)

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N= 95 D= 719696061521

A= (-5349346874137707423796625297000720805684522514290240145 52 , -6305589572956010301697060002295777605429052766 6200)
B= (21296758444739991716517035107777460061064822072252126843722499554702417524225051655 04 , 25103769694122301009711212569617458275
99708913030562007960411511652465375653600)

J-INVARIANT

J= (8626060252301498707980951784472741612955396666461393070570447400592617225837258415617106620942045562119653406656027019212780153
27030000000000000 , 0)

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

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

U= (2905094824485053072402324307 0 , 3519653763100566415350)
V= (-6002625060322355564206663001600 , -0112964934459251950169600)

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A= 50 B= 15006014001

A= (-46706475644721740000794764836826315251500110406 7 , -3454008706255010990447247005310007024995000)
B= (515925792545549007656934726202594607837766425557115381519816374423825326 , 42116721205466960500904399762937930523769071549799401804748665000)

J-INVARIANT

J= (125002044037958771706375401966017654713584957575148474299657127626869401/1518406982020693091576200072021404375000000000000000 , 0)

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= (8639708396409962960990767 , 7052078453967525000)
V= (-529657204257560572767405000 , -4325602097100132450000)

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I= 115/2 B= 2235283001569

A= (-1005750447901156261969169951163621954846195104430165536 4312 , -67500509873026551001210026623735492134409160556294 00)
B= (5690358018452660140931586720000541047885850317834960462507250660975300067401077970023616 , 367309367375339482105403806249522601
007155742540994082049963736525754066033777660000)

J-INVARIANT

J= (2000016240896945926865650157950950105179938426342266538544465799970061148219167822037769/5696650156727029617647176532760178815
5406597889765700000000000000 , 0)

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

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

U= (6004284152383874668565561257 02 , 2739665950824681847255 0)
V= (-7367049615009518763151207630771200 , -4929715091139900707168350400)

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I= 65 B= 75115635041

A= (-11905551719103267777402114599789468091362671350686S2 , -4435693605498176754592555675099816922991622900O)
B= (22600124402418747122902387635691638491897583405405395187177052981837955215014 4 , 85615925457095466012974364367822190970690419590564757616500412750062400)

J-INVARIANT

J= (867801240068905434756041638468078155747935990812377722081093814601170851552l/2800587351140653753863609591654777907353600000000000000 , 0)

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

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

U= (1413852364161504877472443O , 522060872761435646S0)
V= (-2241700455963657154491551040O , -629057163922266783744O0)

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X= 145/2 B= 9039466452529

A= (-7831092560579032175335050000566701605479030621060251595927352 72 , -2350844284666727207136939435765752558326418018564264824600)
B= (1015012641684514670028362935553444918190003623211268294633333096445545091550594813744290755193 6 , 3375905192346680995025209502185993500050532455038251112726943200469790713406465403200)

J-INVARIANT

J= (5935012021190900824614135692810294104062467524620657347447501712503227513763594150900681144 9/5090919300007816181718207499064091999010500257129J1151000000000000000 , 0)

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

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

U= (1002501218035675000656803406502 , 5600721015184100997434 50)
V= (-2446302737441502475413375010263400000 , -81365300952424900381103641600)

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P= 161/2 D= 1690619512609?

A= (-109104456516869381103532205702594061251027034925901035125102907185? . -2649192750120225866649679513829024002340149402310271610
000)
B= (6210199102463212790204000697966838847465747760257567003943263426385308677728445183599750456675?0 . 1506006446727977596830275?
5907652384453716860993736315456401096924090820575832218299052?6)

J-INVARIANT

J= (3330975565116617325626691905120603251651923390662719149263990159614935693877746000038461619737/650724055042983217585706932648?
320659373754361940551062203194724552? 0)

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

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

U= (42658460772593480767949501805542 . 1035035902044960284063170)
V= (-32061297111410691916804436513169501056 . -777916591710784126766674535605?2)

MU-P-VALUES

P	MU-P	TYPE OF DECOMPOSITION
3	1	0

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X= 00 B= 4559000101153

A= (-31330661953000109542726510592006491290545032348859747254? , -46503496070487017070757555026100806041009952706304)
B= (954591290207203427953610123302255527940626840925005900255130659372050315335050777?0 , 1416001404627254168747777611706646503264442
42150066072000571255511795110416402613?0040)

J-INVARIANT

J= (25373557259451307606643752019331108299607755046697599490167637913042493912965994?/1553766365970000394310955045266704404330?765
7897070014720 , 0)

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

A GENERATOR OF THE TORSION GROUP IS THE POINT 8=(U,V). HERE IS

U= (2205120702939624025657552547 , 3591760617956594160386)
V= (-7325409640955509955000946632?6 , -1007296396500002207955417?)

MU-P-VALUES

P	MU-P	TYPE OF DECOMPOSITION
3	1	0
13	1/3	0

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R= 191/2 Q= 475396621101S7

A= (-1340496501932626062003726493377058616787500149006460376669369144792 , -1955780123956325041404867052069176796850127121435512109020000)
B= (0523000977796930334115870056295597601000033522029769566559039022091660653706788064421600139678130080 , 1256260066801098392244703565446913035019663456870090510493872321691313564007050001290659122S6)

J-INVARIANT

J= (4427748096773962561451452216591884122501272695910720612501009751329905662175226641554190246273777/9669503995571022485267906482719329112619632500062750493594031548047360 , 0)

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= (6740774510259264241736400310501542 , 6075760634042765297040400?0)
V= (-42180750201057603572790035344571746201S , -611767118505009694732501746513S2)

MU-P-VALUES

P	MU-P	TYPE OF DECOMPOSITION
3	1	0

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X= 101/2 D= 1019000471017

A= (-2065506660827787997344802500106777329730976106706775071565312 , -2045276402624685066012653737789446221585671276600709440)
B= (1615057675001700575425027274130000000996990505532254540615645085730410093142246505611456000 , 1600031259667072246204555001131627
26700127513263055416765031201920737750001720653 6)

J-INVARIANT

J= (827204596813090043799489022509420522501603601787106824090570291040366416515096652257/7764966633722051125561655465660923512267
826606923910300573104 , 0)

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= (5067292055561190010271575594 , 5000825255220336843697)
V= (-2709335121502154216044830909644153 6 , -2762015154500200276027059552)

MU-P-VALUES

P	MU-P	TYPE OF DECOMPOSITION
3	1	0

****

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X= 50 D= 36766925235

A= (-2623143975102150651320727793227062622774045993001427 , -12637101399705636944630567566951911275005567306)
B= (2053203236095106520164018355616013753520475770183295945568905737106111155360850 , 1070707470155424750555491856125744605012706140113725714400634926000020000)

J-INVARIANT

J= (68500440355121700461757367403933001833557026305662290001251392677577294713/1024065696005670495096502344066765562707310679613640 , 0)

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

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

U= (6354977021766516401100647 , 3314250485752600604)
V= (-1351446535322254011871521877 , -704010400744130394007096)

MU-P-VALUES

P	MU-P	TYPE OF DECOMPOSITION
3	1	0

****

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X= 151/2 B= 490075004657

A= (-3258167018543991461266161996240900282525377034931850797115907672 , -1462735435063000458485230929705544631812575113902020065)
B= (1003101621052054700975767613547035037007670825035002250542475133976800021973557797692406125089760 , 455002382354436979269787620915627968777605621374146552001357405176114166520017171702576)

J-INVARIANT

J= (52869126613701851509662574200233129665906025291502725133304575997400412602042226570566697/1505404790000633136114619032596465000000245619251501500919665104760 , 0)

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= (2525125416201703736459005204342 , 1049401972416360652151670)
V= (-1625135653658443000546013752707000096 , -6457621290709766404907697503252)

MU-P-VALUES

P	MU-P	TYPE OF DECOMPOSITION
3	1	B

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I= 73 D= 1472157364993

A= (-2976134222110969027373044520005965603266138210661336792 , -671615512680867822246065195020131786715122224500904)
B= (2256069881810195052684927188035466104683729746472411041402411055569155850900089034095360 , 9065954907020660903925536002900157507455040525305017500367772619552500002275 92)

J-INVARIANT

J= (11976219565095541870390694295535646045177950637648096095462451320600215059242 73/0592149703960592172655336715107621509730009385170558400 , 0)

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

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

U= (6552525969903520753642200850 , 1707778345095911950106)
V= (-3603800329050464647565022305 1000 , -9106094410161567507700 1000)

MU-P-VALUES

P	MU-P	TYPE OF DECOMPOSITION
3	1	0

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N= 81 D= 2754979990561

A= (-6845555570554762065220093480002420290059094705050001685 , -9227942727150251057315321010600126551443675223722 4)
B= (10340067885573505357064095730710007917094503035900054505975192090066335057111684712620 0 , 5495827995100657471761114615613562196485
567067684150527666567568149660747255125 2)

J-INVARIANT

J= (9846519670005165009346000251143207777664396574719473670298370600008739796612719201/17967597654032552159567500115291522539192520
000000000000 , 0)

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= (2861230245004073807267041926 , 5413111667047162276075 4)
V= (-1670514768905710152267501464000000 , -5197907079768258525 7600000)

MU-P VALUES

P	MU-P	TYPE OF DECOMPOSITION
3	1	0

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X= 177/2 0= 50050542001009

A= (-157063068085991012121053202471221059669230726008756203658691951406% , -28793706497137982122680900350047400065584014529255170425
50000)
B= (3614106372660036652401796269216122262940787363465695552616373501637016272160685320029382095094453 12 , 6227349016345753110642611295456260072000051007681119117104230609069063512779900129008199936)

J-INVARIANT

J= (1044113726650824730887788679953639349212090559582615479984755451261644798734401255105265156004729/1040163429773400890073465826190794457706425843706621093750000000000000 , 0)

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

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

U= (16220956344161122931206604643140454 , 29585495514960899005114008362)
V= (-133662400057401169994955162000000000000 , -2441602184582491409367000000000)

MU-P-VALUES

P	MU-P	TYPE OF DECOMPOSITION
5	1	0

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E= 96 B= 7665335555841

A= (-3613284090044918753595501260227127101367747676706580016355611 , -61544318420483694044776047870616223172078448453086786)
B= (577597358357201648145980311108306167727061926909455215994385016082950189820275677750582 , 45126401402104650570051954054545075920
92004690210540723140519521218546173505400)

J-INVARIANT
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j= (131246422241003839553667961731759565189547745376833742176300027091663512084563606401/25604298045679349000927337312150064411441
1554000000000000000 , 0)

T=[ISOMORPHISM TYPE OF THE TORSION GROUP IS Z MOD 15 Z.

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

U= (778597467521910103213160025? , 8892981751336566506496)
V= (-27200711683552346524117971200000 , -31866099077346751052000000)

MU-P-VALUES

P	MU-P	TYPE OF DECOMPOSITION
3	1	B

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