

Pairing-friendly elliptic curves under embedding degree 1 with 160 bits

The 1st Group:

P:5339967590113102228748194045256826855486180761162972270369880120122862371039
97609758897031086083

R:730750818686719107034401070324602422792720220161

#E:533996759011310222874819404525682685548618076115566476218301292905251836033
673007336104310865921

B:5582

BasePoint1:

X=92216901

Y=3241716386148119557387004513514539384627433559133041256679791951757496280718
73615636670182400781

BasePoint2:

X=2900911840

Y=4705653270894656087667172905567243436118758272532539710392742290906278300932
58979017255917746829

The 2nd Group:

P:5339967590113102228748194045256826855486180761162972270369880120122862371039
97609758897031086083

R:730750818686719107034401070324602422792720220161

#E:533996759011310222874819404525682685548618076115566476218301292905251836033
673007336104310865921

B:411

BasePoint1:

X=6456

Y=2007836533126432530004276851853616728248895780298778384663762940325812109085
78307946592006236274

BasePoint2:

X=7718449758221

Y=2465947000639506824993457438585815504097930070297024236206310323091872683222
19527336805985703980

The 3rd Group:

P:5339967590113102228748194045256826855486180761162972270369880120122862371039
97609758897031086083

R:730750818686719107034401070324602422792720220161

#E:533996759011310222874819404525682685548618076115566476218301292905251836033
673007336104310865921

B:6888558

BasePoint1:

X=63

Y=4834472986068021970076677820860070622128748810600898320421548003973672488625
91909523693105053579

BasePoint2:

X=503

Y=7733567817572431146910906755294333486423515359564079602920082150360647253928
5202409938146494560

The 4th Group:

P:5339967590113102228748194045256826855486180761162972270369880120122862371039
97609758897031086083

R:730750818686719107034401070324602422792720220161

#E:533996759011310222874819404525682685548618076115566476218301292905251836033
673007336104310865921

B:1852511737533

BasePoint1:

X=28136114

Y=2421586997758146547929141651090301275131350197731545535102445886471423045341
34418272078033955490

BasePoint2:

X=86590

Y=1215517622354270486043067049387207697308306011135894335956214137170862240501
69417598237928322315

The 5th Group:

P:5339967590113102228748194045256826855486180761162972270369880120122862371039
97609758897031086083

R:730750818686719107034401070324602422792720220161

#E:533996759011310222874819404525682685548618076115566476218301292905251836033
673007336104310865921

B:111158

BasePoint1:

X=9069952

Y=1918847821298350768964307827292794894104744670973177684767615355126562822817
15989056396995028939

BasePoint2:

X=40

Y=3620638660701426462873919017150384043285409446742227129283391394122138645649
48793769019222805261

The 6th Group:

P:5339967590113102228748194045256826855486180761162972270369880120122862371039
97609758897031086083

R:730750818686719107034401070324602422792720220161

#E:533996759011310222874819404525682685548618076115566476218301292905251836033

673007336104310865921

B:7134

BasePoint1:

X=352

Y=3731206374035679896972978197911305499703778874420496254815676024660469973491

76087351878502769389

BasePoint2:

X=1171827216

Y=4972188531345807775259647604103261612371250535098304079416233175139145924214

92486740293952308203

The 7th Group:

P:5339967590113102228748194045256826855486180761162972270369880120122862371039

97609758897031086083

R:730750818686719107034401070324602422792720220161

#E:533996759011310222874819404525682685548618076115566476218301292905251836033

673007336104310865921

B:562

BasePoint1:

X=7751170

Y=1700896316387651232457720264130703516565556357348900007127532084563086619543

35842959630945562639

BasePoint2:

X=9123978

Y=4916965882507511283166907429893762472198929734350853829786390448708639966765

82978948360971631311

The 8th Group:

P:5339967590113102228748194045256826855486180761162972270369880120122862371039

97609758897031086083

R:730750818686719107034401070324602422792720220161

#E:533996759011310222874819404525682685548618076115566476218301292905251836033

673007336104310865921

B:1105557501121

BasePoint1:

X=96209917051711

Y=5254493851554263651010907317619511805370958095867405458057553868391319925687

64934554139827350205

BasePoint2:

X=12835

Y=7412749529671501511849755817462372315647374579229518418205648770040272586460

4342423009775785761

The 9th Group:

P:5339967590113102228748194045256826855486180761162972270369880120122862371039
97609758897031086083
R:730750818686719107034401070324602422792720220161
#E:533996759011310222874819404525682685548618076115566476218301292905251836033
673007336104310865921
B:814
BasePoint1:
X=76110676327
Y=4552307706686746350010731489496121100227162526959989182062948064140389554244
54903144922555015137
BasePoint2:
X=856171875
Y=1736179157868257579289299665430112058480332336111854633618584941443339517707
11174509831733937961

The 10th Group:

P:5339967590113102228748194045256826855486180761162972270369880120122862371039
97609758897031086083
R:730750818686719107034401070324602422792720220161
#E:533996759011310222874819404525682685548618076115566476218301292905251836033
673007336104310865921
B:1110977
BasePoint1:
X=935542646001
Y=4256057230284920101959224796025177555146368601555193412251321683541769110100
27713634301519279864
BasePoint2:
X=211058810
Y=4244086073333348531027007233287740943374514738460309249175013920934618597951
55755424956700868152