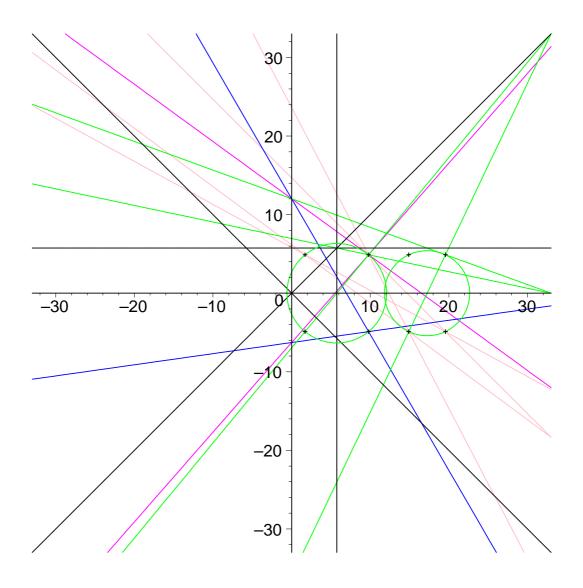
```
> restart;Digits:=30;with(geometry);_EnvHorizontalName := x;
  _EnvVerticalName := y;
                                         Digits := 30
[Apollonius, AreCollinear, AreConcurrent, AreConcyclic, AreConjugate, AreHarmonic,
   AreOrthogonal, AreParallel, ArePerpendicular, AreSimilar, AreTangent, CircleOfSimilitude,
   CrossProduct, CrossRatio, DefinedAs, Equation, EulerCircle, EulerLine, ExteriorAngle,
   ExternalBisector, FindAngle, GergonnePoint, GlideReflection, HorizontalCoord, HorizontalName,
   InteriorAngle, IsEquilateral, IsOnCircle, IsOnLine, IsRightTriangle, MajorAxis, MakeSquare,
   MinorAxis, NagelPoint, OnSegment, ParallelLine, PedalTriangle, PerpenBisector,
   PerpendicularLine, Polar, Pole, RadicalAxis, RadicalCenter, RegularPolygon,
   Regular Star Polygon, Sensed Magnitude, Simson Line, Spiral Rotation, Stretch Reflection, \\
   StretchRotation, TangentLine, VerticalCoord, VerticalName, altitude, apothem, area, asymptotes,
   bisector, center, centroid, circle, circumcircle, conic, convexhull, coordinates, detail, diagonal,
   diameter, dilatation, directrix, distance, draw, dsegment, ellipse, excircle, expansion, foci, focus,
   form, homology, homothety, hyperbola, incircle, inradius, intersection, inversion, line, medial,
   median, method, midpoint, orthocenter, parabola, perimeter, point, powerpc, projection, radius,
   randpoint, reciprocation, reflection, rotation, segment, sides, similitude, slope, square, stretch,
   tangentpc, translation, triangle, vertex, vertices]
                                   EnvHorizontalName := x
                                    EnvVerticalName := y
> tanto_slope_5:=proc(k,p1)
     local p2, p3, sq, s11, s12, pp1;
     p2:=evalf(k/p1);
>
     sq:=evalf(sqrt(k));
>
     sl1:=sq/p1;
>
>
     s12:=sq/p2;
     pp1 := p1*2+1;
>
     p3 := ((k/pp1)-1)/2;
>
>
>
     line(Y, y=x, [x, y]);
     line(_{Y}, y=-x, [x, y]);
>
     line(SQh, y=sq, [x, y]);
>
>
     line(SQv, x=sq, [x, y]);
>
     line (P1h, y=p1, [x, y]);
>
     line (P1v, x=p1, [x, y]);
>
     line (P2h, y=p2, [x, y]);
>
     line(P2v, x=p2, [x,y]);
>
     line (LH, y=0, [x, y]);
>
     line(LV, x=0, [x, y]);
>
>
     point(KK,k,k);
     point(K0,k,0);
>
```

point(SQP1, sq, 0);

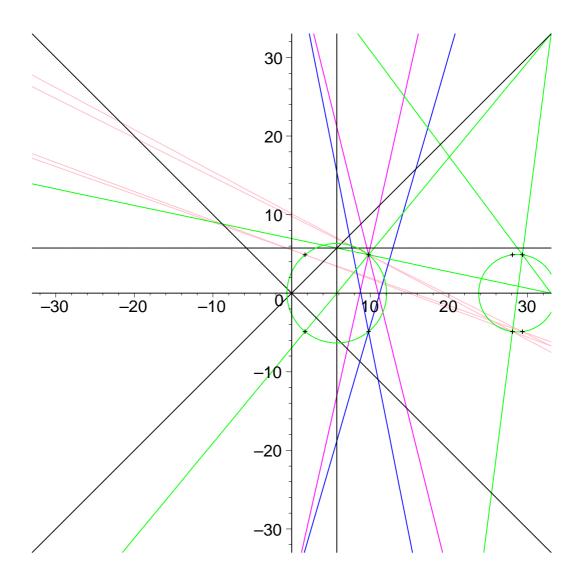
```
>
    point(SQP1SQ, sq, sq);
>
    point(SQP3SQ, sq, sq);
>
    point(SQP2, sq*pp1, 0);
>
>
    point(SQP2SQ, sq*pp1, sq);
>
    point (00, 0, 0);
>
    line(AA, [KK, SQP2]);
>
    line(BB, [K0, SQP2SQ]);
>
>
    intersection(PP3,AA,BB);
    point(PP4, HorizontalCoord(PP3), -VerticalCoord(PP3));
  point(PP5, (sq*pp1) - (HorizontalCoord(PP3) - (sq*pp1)), VerticalCoord(P
  P3));
    point(PP6, HorizontalCoord(PP5), -VerticalCoord(PP5));
>
>
    circle(C1, [PP3, PP4, PP5]);
>
>
>
    line(A, [KK, SQP1]);
>
    line(B, [K0, SQP1SQ]);
>
    intersection(P3, A, B);
>
    point(P4, HorizontalCoord(P3), -VerticalCoord(P3));
    point(P5, sq-(HorizontalCoord(P3)-sq), VerticalCoord(P3));
>
>
    point(P6, HorizontalCoord(P5), -VerticalCoord(P5));
>
>
    circle(C2, [P3, P4, P5]);
>
    point (X0, (k/(sq-p1)), 0);
>
>
    line(BL1, [P4, X0]);
    point (X1, (k/(sq-p3)), 0);
>
>
    line(BL2, [P4, X1]);
>
>
    point(P7, coordinates(intersection(I1, BL1, LV)));
    point(P8, coordinates(intersection(I2, BL2, LV)));
>
>
    line(RL1, [P7, SQP1SQ]);
    line (RL2, -slope (RL1) *x+slope (RL1) *sq=y, [x, y]);
>
>
>
    point (X2, k/(p1+1), 0);
>
    point (X3, sq/(p1+1), 0);
    point (X4, k/(p1*2+1)/2, 0);
>
>
    line (ML1, [P3, X2]);
>
    line(ML2, [X3, P5]);
>
    line(ML3, [P8, P3]);
>
>
    line(YL1, [P3, PP4]);
>
    line(YL2, [PP4, P5]);
    line(YL3, [P3, PP6]);
>
>
    line(YL4, [PP6, P5]);
>
```

```
>
    print( solve(Equation(BL1),y) );
    print( solve(Equation(BL2),y) );
>
    print( solve(Equation(RL2),y) );
>
    print( solve({Equation(ML2), x=0}) );
>
>
    print( solve({Equation(ML1), Equation(BL2)}) );
    print( solve({Equation(ML1), Equation(Y)}) );
>
>
    print( solve({Equation(BL2), x=k}) );
>
    print( solve({Equation(ML3), x=k}) );
    print( solve({Equation(BL1), x=k}) );
>
>
    print( solve({Equation(ML1), x=k}) );
    print( solve({Equation(ML3), Equation(BL1)}) );
>
    print( solve({Equation(ML3), Equation(_Y)}) );
>
    print( solve({Equation(ML3), Equation(Y)}) );
>
    print( solve({Equation(ML1), Equation(_Y)}) );
>
    print( solve({Equation(BL1), Equation(Y)}) );
>
    print( solve({Equation(YL2), Equation(Y)}) );
>
    print( solve({Equation(YL1), x=0}) );
>
>
    print( solve({Equation(YL2), x=0}) );
    print( solve({Equation(YL3), x=0}) );
>
>
    print( solve({Equation(YL4), x=0}) );
>
>
    draw([Y, Y,SQh,SQv,P3,P4,P5,P6,PP3,PP4,PP5,PP6,
           A(colour=green),
>
>
           B(colour=green),
           BB (colour=green),
>
          AA(colour=green),
>
>
          BL1(colour=blue),
          BL2(colour=blue),
>
           RL2(colour=red),
> #
          ML1(colour=magenta),
>
> #
           ML2(colour=magenta),
          ML3(colour=magenta),
>
          YL1(colour=pink),
>
          YL2(colour=pink),
>
>
          YL3(colour=pink),
           YL4(colour=pink),
>
>
          C1(colour=green),
>
           C2(colour=green)
>
          ],colour=black,axes=normal,view=[-k..k,-k..k]
>
    );
>
> end proc:
> tanto_slope_5(33,1);
        12.0237736389897894072945907687 - 1.72871355387816905498755095567 x
       -6.27921099245176074744397930057 + 0.141674725900320135898905327379 x
        1.09307033081725358248132643351 \ x - 6.27921099245176074744397930048
                   \{x = 0., y = 12.0237736389897894072945907682\}
```

```
\{x = 6.95533022924234205547094307660, y = 6.95533022924234205547094307660\}
              \{y = -1.60394503774119626278010349708, x = 33.\}
              \{x = 33., y = 31.3960549622588037372198965029\}
              \{x = 33., y = -45.0237736389897894072945907684\}
              \{x = 33., y = -12.0237736389897894072945907688\}
\{y = 1.00065950781079388574831942478, x = 6.37648389257428624293371870574\}
\{x = 2.93191627865529275693386788457, y = -2.93191627865529275693386788457\}
\{y = 44.3213209169693682218837723064, x = 44.3213209169693682218837723064\}
\{y = 44.3213209169693682218837723065, x = -44.3213209169693682218837723065\}
\{x = 4.40638909199577492715638238707, y = 4.40638909199577492715638238707\}
\{y = 3.76421981240883229311271269209, x = 3.76421981240883229311271269209\}
               \{y = 14.6784906877270261664128292297, x = 0.\}
               \{x = 0., y = 5.82576411887222996302100501433\}
               \{x = 0., y = 23.6309434097474473518236476923\}
               \{x = 0, y = 6.15638259560599542330454106070\}
```

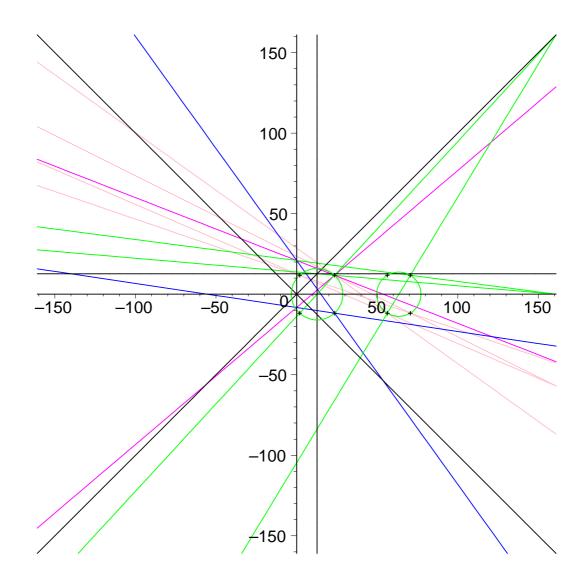


```
 \{y = -121.642641833938736443767544610, x = 33.\}   \{y = -88.6426418339387364437675446140, x = 33.\}   \{y = 0.303258909039989837199251068092, x = 8.75247868383235094792159839193\}   \{x = 7.08848546215746335517655905346, y = -7.08848546215746335517655905346\}   \{y = 11.2070972708964604839058099543, x = 11.2070972708964604839058099543\}   \{x = 14.6313086237340305088732315629, y = -14.6313086237340305088732315629\}   \{y = 7.35109800809048062108602839639, x = 7.35109800809048062108602839639\}   \{y = 4.05921022657402922511132409842, x = 4.05921022657402922511132409842\}   \{y = 9.78566045848468411094188615320, x = 0.\}   \{y = 5.49562982073906716282944384580, x = 0.\}   \{y = 10.1247174070445915824449023043, x = 0.\}   \{y = 5.52460641242416873938774206864, x = 0.\}
```



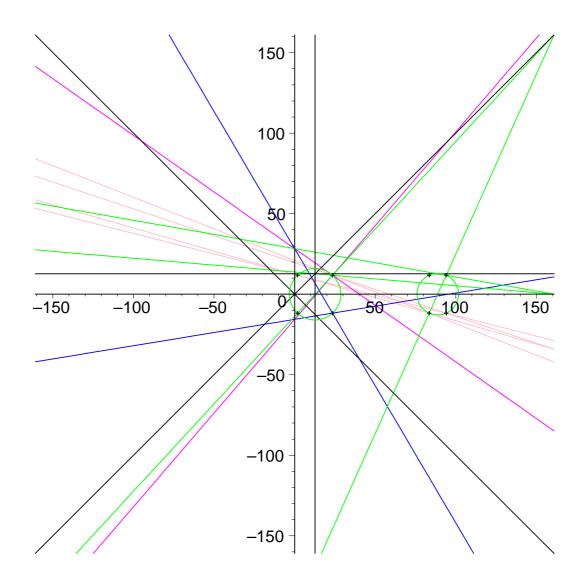
```
> tanto_slope_5 (161, 2); 20.9401542942086233912588045004 - 1.39018921045109236132780381054 \, x \\ -8.25157675375910301106503175475 - 0.149216309860862670908822812858 \, x \\ 0.650315350751820602213006350920 \, x - 8.25157675375910301106503175431 \\ \{y = 20.9401542942086233912588045001, x = 0.\} \\ \{y = -26.3278101175912518585338272107, x = 121.141136519777248384578505836\} \\ \{x = 15.0628088153654317274598561281, y = 15.0628088153654317274598561281\} \\ \{x = 161., y = -32.2754026413579930273855046249\} \\ \{x = 161., y = 128.724597358642006972614495373\}
```

```
 \{x = 161., y = -202.880308588417246782517608997\}   \{x = 161., y = -41.8803085884172467825176090017\}   \{y = 2.83104216412157195207685419435, x = 13.0263650400587972292950509862\}   \{x = 4.45842309813026822666282241903, y = -4.45842309813026822666282241903\}   \{y = -55.2994291405096258039242036400, x = -55.2994291405096258039242036400\}   \{y = 34.3387730310553894970226537331, x = -34.3387730310553894970226537331\}   \{y = 8.76087725718444632339898289779, x = 8.76087725718444632339898289779\}   \{y = 9.23491324079570382673001508672, x = 9.23491324079570382673001508672\}   \{x = 0., y = 23.5232623001546597651399676513\}   \{x = 0., y = 12.3962675281157902972590170195\}   \{x = 0., y = 28.6356130752661057723731796357\}   \{x = 0., y = 12.5623643128147057446864809500\}
```



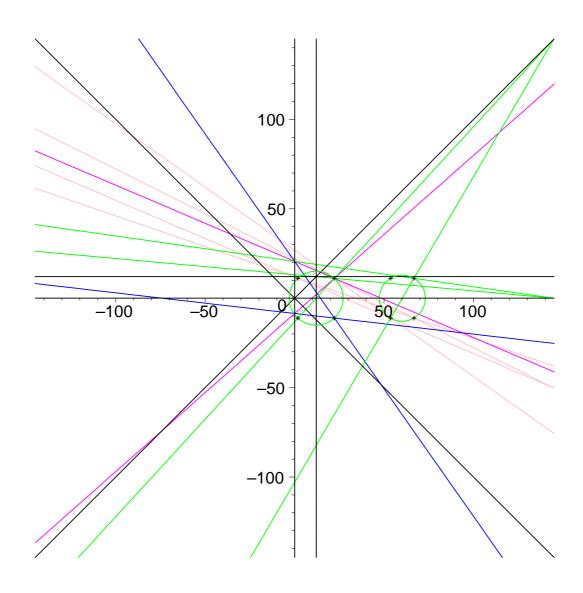
```
> tanto_slope_5 (161,3); 28.3023302143961855465285483222 - 1.70316348358748287072120616948 \ x -15.6137526739466651663347755763 + 0.163757963275527838484579546069 \ x 1.23053609627809502376211079660 \ x - 15.6137526739466651663347755760  \{y = 28.3023302143961855465285483208, x = 0.\} \{y = -7.3181818181818181818181818181818181899, x = 50.6575111819587816046726978648\} \{x = 16.6175064737656104027052461324, y = 16.6175064737656104027052461324\} \{x = 161., y = 10.7512794134133168296825313408\} \{x = 161., y = 171.751279413413316829682531339\}
```

```
 \{x = 161., y = -245.906990643188556639585644964\}   \{x = 161., y = -84.9069906431885566395856449676\}   \{y = 2.21292731168713724896978472677, x = 15.3182023652569509663032387262\}   \{x = 7.21603475941012479437142613921, y = -7.21603475941012479437142613921\}   \{y = 95.3465246003093195302799353093, x = 95.3465246003093195302799353093\}   \{x = -95.3465246003093195302799353033, y = 95.3465246003093195302799353033\}   \{x = 10.4700771471043116956294022504, y = 10.4700771471043116956294022504\}   \{x = 9.74834971522077126809512625458, y = 9.74834971522077126809512625458\}   \{x = 0., y = 19.6027185834622164709499730429\}   \{x = 0., y = 12.2344195823489943566300149314\}   \{x = 0., y = 20.9803761866334358703532600566\}   \{x = 0., y = 12.2954532585689137906476485753\}
```



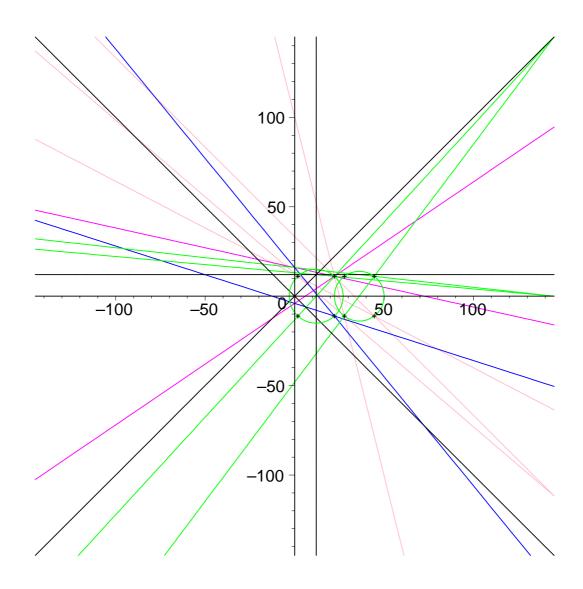
```
> tanto_slope_5 (145, 2); 20.5919267827073570384882912445 - 1.42603986446980738700320602572 \, x \\ - 8.55033220391506155836005021465 - 0.115482875457062597411029288137 \, x \\ 0.710066440783012311672010042884 \, x - 8.55033220391506155836005021409 \\ \{x = 0., y = 20.5919267827073570384882912441\} \\ \{x = 93.8386834547345006639373160803, y = -19.3870931983728864541732703744\} \\ \{x = 14.4399376874105166285006734001, y = 14.4399376874105166285006734001\} \\ \{x = 145., y = -25.2953491451891381829592969945\} \\ \{x = 145., y = 119.704650854810861817040703005\}
```

```
 \{x = 145., y = -186.183853565414714076976582486\}   \{x = 145., y = -41.1838535654147140769765824902\}   \{x = 12.6126553576479099594788130147, y = 2.60577744588274150324032768055\}   \{y = -4.53714752312947115835767445528, x = 4.53714752312947115835767445528\}   \{x = -74.0398277240173106787959793967, y = -74.0398277240173106787959793967\}   \{x = -35.8769285669738622792419129558, y = 35.8769285669738622792419129558\}   \{y = 8.48787651195812747502295649483, x = 8.48787651195812747502295649483\}   \{x = 8.75122216516262652894160450581, y = 8.75122216516262652894160450581\}   \{x = 0., y = 22.2365446378455950641471520751\}   \{x = 0., y = 11.7513451032205803617297920619\}   \{x = 0., y = 26.8306197828964580289241827980\}   \{x = 0., y = 11.9100821277400429746535708735\}
```



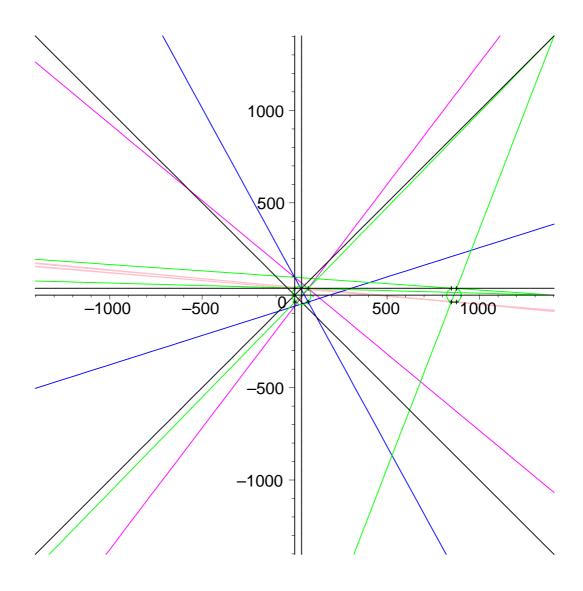
```
> tanto_slope_5 (145, 1); 16.0369942200359032692543746277 - 1.22119992027635728647247413278 \ x -3.99539964124360778912613359757 - 0.320322819650512697941761181096 \ x 0.331799880414535929708711199174 \ x - 3.99539964124360778912613359730  \{x = 0., y = 16.0369942200359032692543746276\} \{y = 60.7407302188536155715541374184, x = -202.096528529336104969773422072\} \{x = 13.1321612078116864209624649264, y = 13.1321612078116864209624649264\} \{x = 145., y = -50.4422084905679489906815048565\} \{x = 145., y = 94.5577915094320510093184951424\}
```

```
 \{x = 145., y = -161.036994220035903269254374625\} \\ \{x = 145., y = -16.0369942200359032692543746280\} \\ \{x = 10.5385002821508279970162305247, y = 3.16737851564094334989978782277\} \\ \{x = 2.37867114466143573391562402573, y = -2.37867114466143573391562402573\} \\ \{y = -12.4730409329025550325394417943, x = -12.4730409329025550325394417943\} \\ \{x = -20.5919267827073570384882912450, y = 20.5919267827073570384882912450\} \\ \{x = 7.21996884370525831425033669995, y = 7.21996884370525831425033669995\} \\ \{x = 7.93974219953001737942923071200, y = 7.93974219953001737942923071200\} \\ \{x = 0., y = 33.3548169567683925962207281127\} \\ \{x = 0., y = 10.372757439640932510691192014\} \\ \{x = 0., y = 12.7018919365572884172335657096\}
```



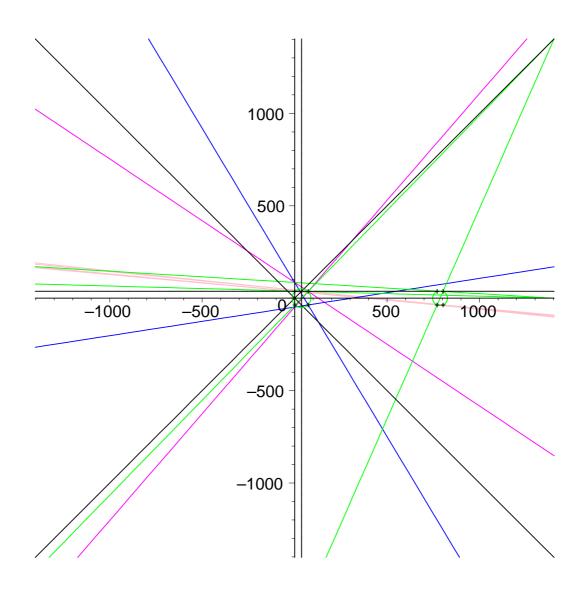
```
> tanto_slope_5 (1403,11); 97.0488194115795039811035888314 - 1.83006830572983182307430011831 \ x \\ -59.5921778109234195338587302145 + 0.316719538231379904169366098825 \ x \\ 1.59096425264884432755907522676 \ x - 59.5921778109234195338587302161 \\ \{y = 97.0488194115795039811035888538, x = 0.\} \\ \{y = -16.3311120700730917871594383785, x = 136.591086178099613533854602155\} \\ \{y = 53.0301623757570097343873140694, x = 53.0301623757570097343873140694\} \\ \{x = 1403., y = 384.76533432770258601576190644\}
```

```
 \{x = 1403., y = -2470.53701352737454379213947716\}   \{x = 1403., y = -1067.53701352737454379213947712\}   \{x = 49.7780609910204446950836253405, y = 5.95156767122648553544550316816\}   \{x = 25.7226551714658669422864377052, y = -25.7226551714658669422864377052\}   \{y = 188.154409872207726599372836254, x = 188.154409872207726599372836254\}   \{x = -571.104877335508351008340093430, y = 571.104877335508351008340093430\}   \{y = 34.2920413670199670015639751516, x = 34.2920413670199670015639751516\}   \{x = 33.8206664655499853394940351889, y = 33.8206664655499853394940351889\}   \{y = 43.1158530770565636255543364211, x = 0.\}   \{x = 0., y = 36.6453396552906438866315129122\}   \{x = 0., y = 36.6507587673911550246725979538\}
```

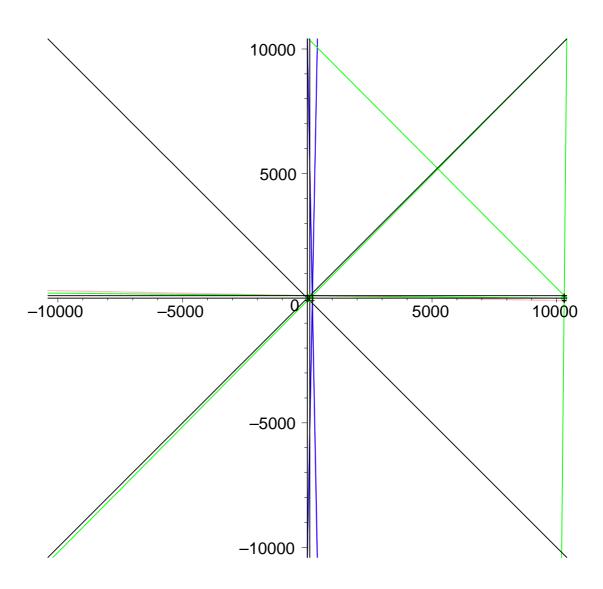


```
> tanto_slope_5 (1403,10);  
    85.2543328125992582946824705182 - 1.66842313680583880345082478669 x  
    -47.7976912119431738474376119014 + 0.155074369307386884545890767198 x  
    1.27608053390205589749702913820 x - 47.7976912119431738474376119027  
    \{x = 0., y = 85.2543328125992582946824705342\}  
\{y = -22.7424135000999223528526676105, x = 161.569431645915175467177468759\}  
\{y = 51.0987476329397440364424686397, x = 51.0987476329397440364424686397\}  
\{y = 169.771648926320625170447134477, x = 1403.\}  
\{x = 1403., y = 1572.77164892632062517044713448\}
```

```
\{x=1403., y=-2255.54332812599258294682470520\} \\ \{x=1403., y=-852.543328125992582946824705175\} \\ \{x=47.1231243294772309847970014901, y=6.63302190272131720990070706231\} \\ \{x=22.1791377098994200904429886550, y=-22.1791377098994200904429886550\} \\ \{x=308.224314729915567164530951533, y=308.224314729915567164530951533\} \\ \{y=257.117857957046138468296930446, x=-257.117857957046138468296930446\} \\ \{y=31.9493305378286331883399426522, x=31.9493305378286331883399426522\} \\ \{x=33.5983402983470523148132200645, y=33.5983402983470523148132200645\} \\ \{y=43.7791738936266646044090185199, x=0.\} \\ \{y=44.1144799114231329421553229843, x=0.\} \\ \{y=44.1144799114231329421553229843, x=0.\} \\ \{x=0., y=36.6675701529947151434391062059\}
```



```
 \{x = 10403., y = -533115.377147655813243592059299\} \\ \{x = 10403., y = -522712.377147655813243592058773\} \\ \{y = 0.490372491334953718360035430369, x = 200.067168775688866900262995208\} \\ \{x = 196.264865928390066473653789305, y = -196.264865928390066473653789305\} \\ \{y = 204.000000471229106063075098431, x = 204.000000471229106063075098431\} \\ \{x = 208.039603470319619361004008974, y = -208.039603470319619361004008974\} \\ \{x = 196.319334822872732497380460155, y = 196.319334822872732497380460155\} \\ \{y = 99.1001359739641725631371677214, x = 99.1001359739641725631371677214\} \\ \{y = 105.044999406228673805448605525, x = 0.\} \\ \{x = 0., y = 101.043649521888284598815081171\} \\ \{x = 0., y = 101.043656955314049378084005399\}
```



[ >