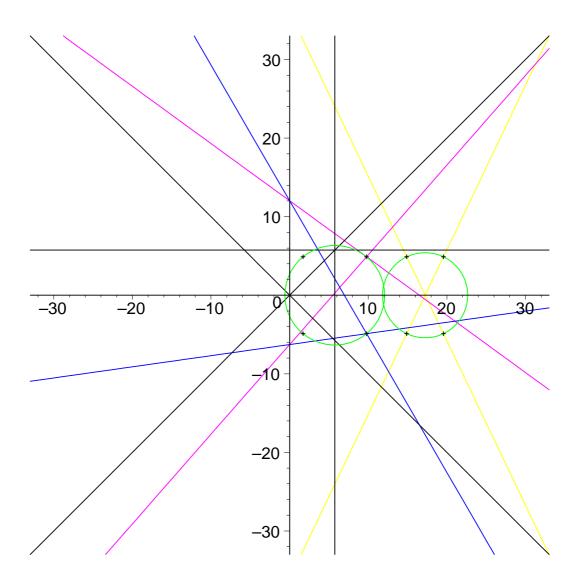
```
> restart;Digits:=30;with(geometry);_EnvHorizontalName := x;
  _EnvVerticalName := y;
                                         Digits := 30
[Apollonius, AreCollinear, AreConcurrent, AreConcyclic, AreConjugate, AreHarmonic,
   AreOrthogonal, AreParallel, ArePerpendicular, AreSimilar, AreTangent, CircleOfSimilitude,
   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, [KO, 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, [PP3, PP6]);
>
    line(YL2, [PP4, PP5]);
>
>
    print( solve(Equation(BL1),y) );
>
    print( solve(Equation(BL2), y) );
```

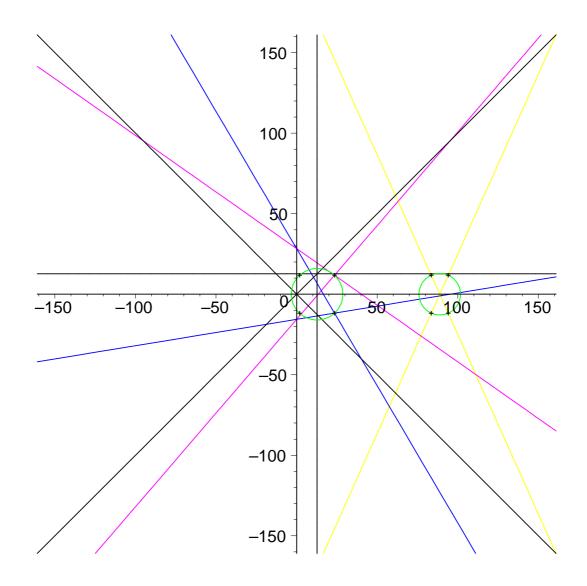
```
print( solve(Equation(RL2),y) );
    print( solve({Equation(ML2), x=0}) );
>
    print( solve({Equation(ML1), Equation(BL2)}) );
    print( solve({Equation(ML1), Equation(Y)}) );
>
>
    print( solve({Equation(BL2), x=k}) );
    print( solve({Equation(ML3), x=k}) );
>
    print( solve({Equation(BL1), 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)}) );
>
>
>
    draw([Y,_Y,SQh,SQv,P3,P4,P5,P6,PP3,PP4,PP5,PP6,
>
> #
            A(colour=green),
> #
            B(colour=green),
           BL1(colour=blue),
>
          BL2(colour=blue),
>
           RL2(colour=red),
          ML1(colour=magenta),
>
> #
           ML2(colour=magenta),
          ML3(colour=magenta),
>
           YL1(colour=yellow),
>
           YL2(colour=yellow),
>
          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\}
                  \{x = 33., y = -1.60394503774119626278010349708\}
                  \{x = 33., y = 31.3960549622588037372198965029\}
                  \{x = 33., y = -45.0237736389897894072945907684\}
                  \{x = 33., y = -12.0237736389897894072945907688\}
      \{x = 6.37648389257428624293371870574, y = 1.00065950781079388574831942478\}
```

```
 \{x = 2.93191627865529275693386788457, y = -2.93191627865529275693386788457\} \\ \{y = 44.3213209169693682218837723064, x = 44.3213209169693682218837723064\} \\ \{x = -44.3213209169693682218837723065, y = 44.3213209169693682218837723065\} \\ \{x = 4.40638909199577492715638238707, y = 4.40638909199577492715638238707\} \\ \{y = 11.6619788944270705256131794366, x = 11.6619788944270705256131794366\} \\ \{y = 14.40638909199577492715638238707, y = 4.40638909199577492715638238707\} \\ \{y = 4.4063890919957492715638238707, y = 4.4063890919957492715638238707\} \\ \{y = 4.406389091995749271563824870705256131794366\} \\ \{y = 4.4063890919957492715638248970705256131794869707052561879970705256187070705256187070705256187070
```



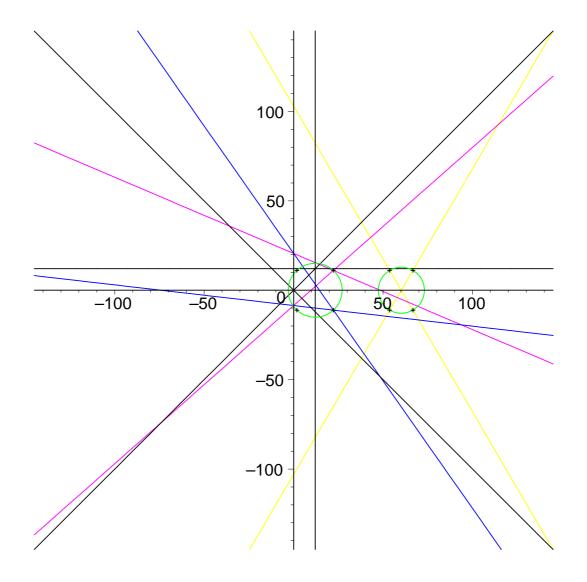
## 

```
\{x=0., y=28.3023302143961855465285483208\} \\ \{x=50.6575111819587816046726978648, y=-7.3181818181818181818181818181818181899\} \\ \{y=16.6175064737656104027052461324, x=16.6175064737656104027052461324\} \\ \{x=161., y=10.7512794134133168296825313408\} \\ \{x=161., y=171.751279413413316829682531339\} \\ \{y=-245.906990643188556639585644964, x=161.\} \\ \{y=-84.9069906431885566395856449676, x=161.\} \\ \{y=2.21292731168713724896978472677, x=15.3182023652569509663032387262\} \\ \{y=-7.21603475941012479437142613921, x=7.21603475941012479437142613921\} \\ \{y=95.3465246003093195302799353093, x=95.3465246003093195302799353093\} \\ \{x=-95.3465246003093195302799353033, y=95.3465246003093195302799353033\} \\ \{y=10.4700771471043116956294022504, x=10.4700771471043116956294022504\} \\ \{x=61.3261408002911242637928802829, y=61.3261408002911242637928802829\}
```

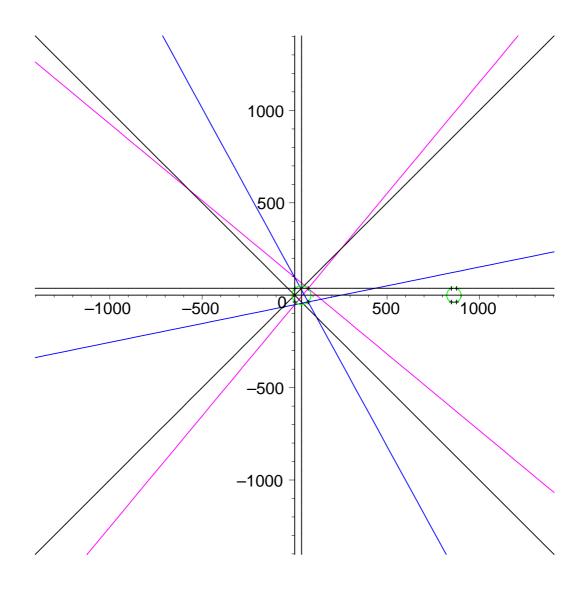


```
> tanto_slope_5 (145, 2); 20.5919267827073570384882912445 - 1.42603986446980738700320602572 \, x \\ - 8.55033220391506155836005021465 - 0.115482875457062597411029288137 \, x \\ 0.710066440783012311672010042884 \, x - 8.55033220391506155836005021409 \\ \{y = 20.5919267827073570384882912441, x = 0.\}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

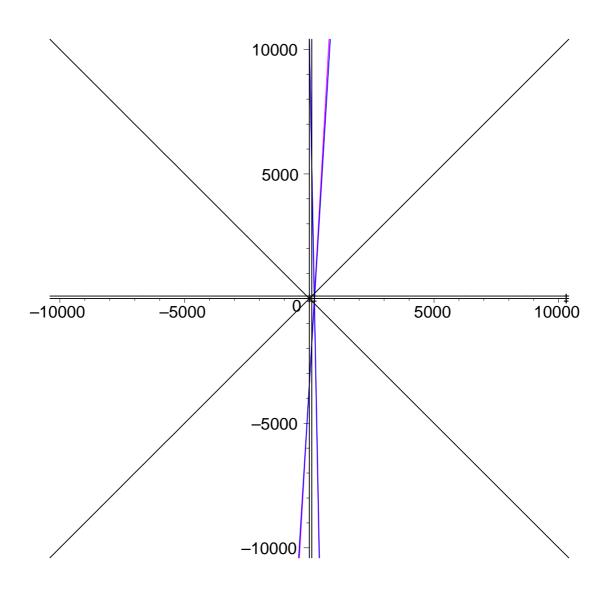
```
\{x = 145., y = -186.183853565414714076976582486\} \{x = 145., y = -41.1838535654147140769765824902\} \{x = 12.6126553576479099594788130147, y = 2.60577744588274150324032768055\} \{x = 4.53714752312947115835767445528, y = -4.53714752312947115835767445528\} \{y = -74.0398277240173106787959793967, x = -74.0398277240173106787959793967\} \{y = 35.8769285669738622792419129558, x = -35.8769285669738622792419129558\} \{y = 8.48787651195812747502295649483, x = 8.48787651195812747502295649483\} \{x = 37.9915534040519431462809900795, y = 37.9915534040519431462809900795\}
```



```
\begin{array}{c} 97.0488194115795039811035888314 - 1.83006830572983182307430011831\ x\\ -51.3616781277879296612691402775 + 0.203919332775693873839442201479\ x\\ 1.59096425264884432755907522676\ x - 59.5921778109234195338587302161\\ \{x=0.,\ y=97.0488194115795039811035888538\}\\ \{y=-22.0926922055980746028817171317,\ x=143.532177767494962494815326739\}\\ \{x=53.0301623757570097343873140694,\ y=53.0301623757570097343873140694\}\\ \{y=234.737145756510575335468268397,\ x=1403.\}\\ \{x=1403.,\ y=1637.73714575651057533546826840\}\\ \{x=1403.,\ y=-2470.53701352737454379213947716\}\\ \{x=1403.,\ y=-1067.53701352737454379213947712\}\\ \{y=7.52922337321981246218612337997,\ x=48.9159862274426134674058882586\}\\ \{y=-23.3046996611719075852409498150,\ x=23.3046996611719075852409498150\}\\ \{y=251.872529341219848949092019281,\ x=251.872529341219848949092019281\}\\ \{y=571.104877335508351008340093430,\ x=-571.104877335508351008340093430\}\\ \{x=34.2920413670199670015639751516,\ y=34.2920413670199670015639751516\}\\ \end{array}
```



```
\{x = 10403., y = -533115.377147655813243592059299\} \\ \{x = 10403., y = -522712.377147655813243592058773\} \\ \{x = 199.112159379799714373716078848, y = 50.3907953404623017044496033672\} \\ \{y = -185.602465199944663313223999956, x = 185.602465199944663313223999956\} \\ \{y = 208.142849506936153391873977729, x = 208.142849506936153391873977729\} \\ \{x = 208.039603470319619361004008974, y = -208.039603470319619361004008974\} \\ \{x = 196.319334822872732497380460155, y = 196.319334822872732497380460155\}
```



```
Digits:=100;

Digits:=100

> evalf(1403/2);
```

```
> \text{ evalf}(1403/3);
666666666666666666666666666666666
> \text{ evalf}(1403/5);
> \text{ evalf}(1403/7);
200.42857142857142857142857142857142857142857142857142857142857142857142857142857
  714285714285714285714285714
> \text{ evalf}(1403/11);
54545454545454545454545454545
> \text{ evalf}(1403/13);
107.92307692307692307692307692307692307692307692307692307692307692307692307
  769230769230769230769230769
> \text{ evalf}(1403/17);
82.5294117647058823529411764705882352941176470588235294117
  647058823529411764705882353
> \text{ evalf}(1403/19);
73.84210526315789473684210526315789473684210526315789473684210526315789473\
  684210526315789473684210526
> \text{ evalf}(1403/23);
                             61.
> \text{ evalf}(1403/29);
48.37931034482758620689655172413793103448275862068965517241379310344827586\
  206896551724137931034482759
> \text{ evalf}(1403/31);
45.25806451612903225806451612903225806451612903225806451612903225806451612
  903225806451612903225806452
> \text{ evalf}(1403/37);
891891891891891891891892
> evalf(1403/41);
195121951219512195121951220
> \text{ evalf}(1403/43);
32.62790697674418604651162790697674418604651162790697674418604651162790697\
  674418604651162790697674419
```

```
> \text{ evalf}(1403/47);
 29.85106382978723404255319148936170212765957446808510638297872340425531914\
    893617021276595744680851064
 > \text{ evalf}(1403/51);
 27.50980392156862745098039215686274509803921568627450980392156862745098039
    215686274509803921568627451
 > \text{ evalf}(1403/53);
 26.4716981132075471698113207547169811320754716981132075471698\
    113207547169811320754716981
 > \text{ evalf}(1403/57);
 24.614035087719298245614035087719298245614035087719298245
    561403508771929824561403509
 > evalf(1403/59);
 23.77966101694915254237288135593220338983050847457627118644067796610169491\
    525423728813559322033898305
[ > evalf(1403/61); ]
                                         23.
[ >
```