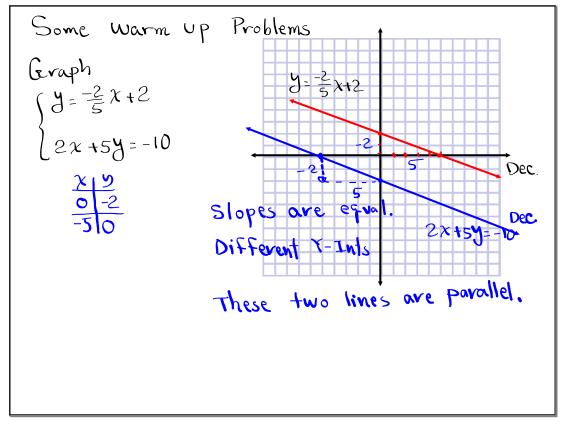
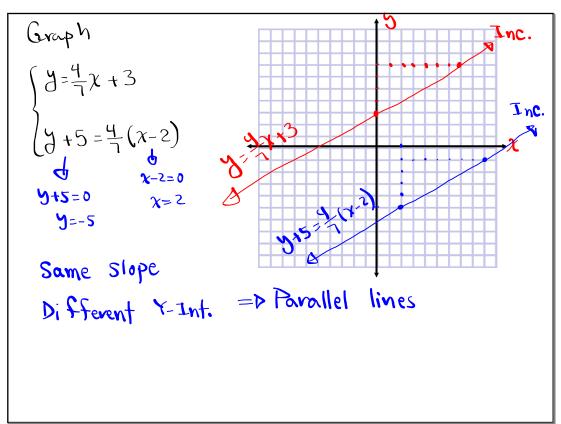
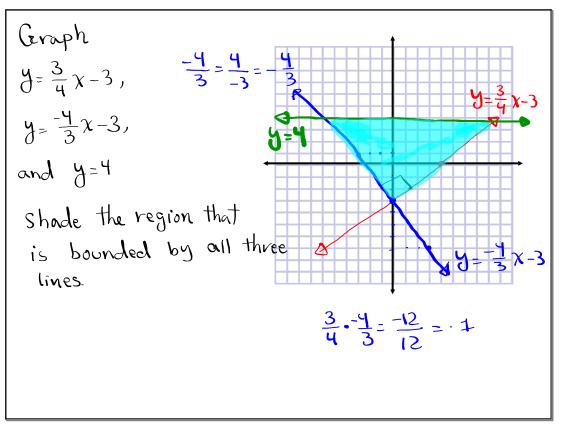


Feb 19-8:47 AM





Nov 8-6:12 AM



find eqn of a line that contains (-5,7) with

1) Zero slope

$$m=0$$
, H.L., y-only

undefined slope, V.L.,

 $x-only$ 
 $x=-5$ 

4)  $m=\frac{3}{5}$ 
 $y-y_1=m(x-x_1)$ 
 $y-1=-2(x-5)$ 
 $y-1=\frac{3}{5}(x-5)$ 
 $y-1=\frac{3}{5}(x-5)$ 
 $y-1=\frac{3}{5}x+3$ 
 $y-1=-2x-3$  slope-Int. form

 $y=\frac{3}{5}x+10$ 
 $y=3$ 
 $y=3$ 

Nov 8-6:26 AM

Find eqn of a line that contains (3,0) and

1) 
$$(7,0)_{1}(3,0)$$
 $m = \frac{0-0}{7-3} = \frac{0}{4} = 0$ 
 $m = \frac{1-4}{3}$ 
 $m = \frac{1-0}{-2-3} = \frac{1-4}{3}$ 
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Sind eqn of a line that Contains (-2,4)

and is parallel to the line 
$$3x-2y=8$$
.

$$y-y_1=m(x-x_1)$$

$$y-y_2=-3x+8$$

$$y-y=\frac{3}{2}(x--2)$$

$$y=\frac{3}{2}x+7$$

$$y=\frac{3}{2}x+7$$

$$2y=3x+14$$

$$y=\frac{3}{2}x+7$$

$$2y=3x+14$$

$$3x-2y=-14$$
Standard form

Nov 8-6:48 AM

find eqn of aline that contains 
$$(-4, -3)$$
  
and is perpendicular to the line  $4x+5y=-8$ .  

$$5y=-4x-8$$

$$- Reciprocal = -(-\frac{\pi}{4})$$

$$y=-\frac{4}{5}x-\frac{8}{5}$$
Our new line has slope  $\frac{5}{4}$ 
Now use Point-Slope Sormula
$$y-y_1=m(x-x_1)$$

$$y+3=\frac{5}{4}x+\frac$$

<u>Ch. 8</u> System of linear equations in two Variables.

$$\begin{cases} 2x - 3y = 6 \\ x = y + 4 \end{cases} \begin{cases} x + y = 5 \\ x - y = -1 \end{cases} \begin{cases} y = \frac{3}{4}x - 2 \\ y = \frac{-2}{5}x + 3 \end{cases}$$

The Solution, if exists, is an ordered-pair that Satisfies both equations in the System.

ex: Is 
$$(2,3)$$
 a Solution for we plug in the ordered-Pair in both eqns. If both results are true -> tes

3x + y = 9

The at least 1 fails -> NO

3(2) + 3 = 9

 $x - y = -1$ 

The at least 1 fails -> NO

 $x - y = -1$ 

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The at least 1 fails -> NO

 $x - y = -1$ 

The at least 1 fails ->

Nov 8-7:32 AM

Is 
$$(-2,5)$$
 a Solution of
$$\begin{cases}
3x + 2y = 4 & 3x + 2y = 4 \\
2x - y = 9 & 3(-2) + 2(5) = 4
\end{cases}$$

$$2x - y = 9 & 2(-2) - 5 = 9$$

$$-6 + 10 = 4 & -4 - 5 = 9$$

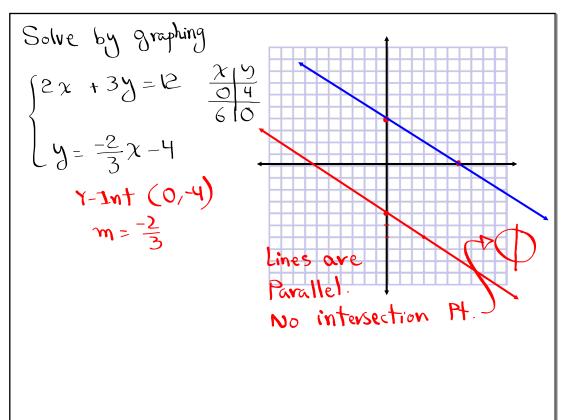
$$-9 = 9$$
Solution.

How to Solve System of linear equations in two-Variables:

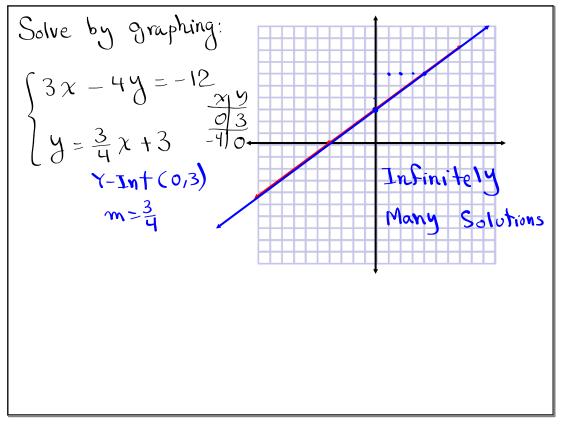
- 1) Graphing
- 2) Substitution
  - 3) Addition/Elimination
  - 4) There are other methods that you learn in other math classes.

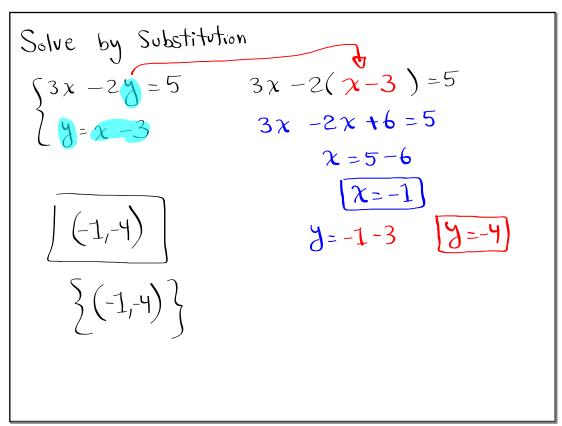
Nov 8-7:42 AM

Solve by graphing:  $\begin{cases}
x + y = 5 & \frac{x_1 y}{0 + 5} \\
x - y = -3 & \frac{x_1 y}{0 + 3} \\
-3 & 0
\end{cases}$ our Solution is (1, 4)

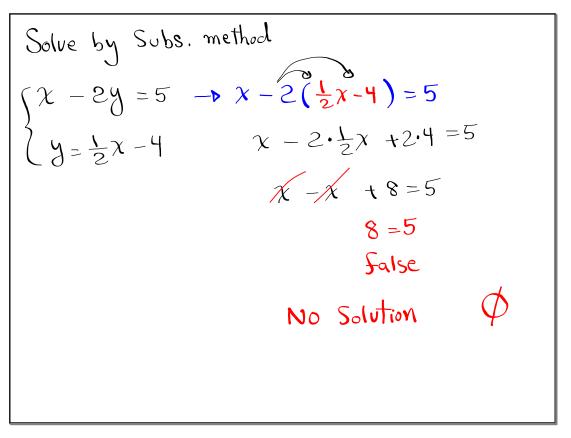


Nov 8-7:49 AM





Nov 8-8:00 AM

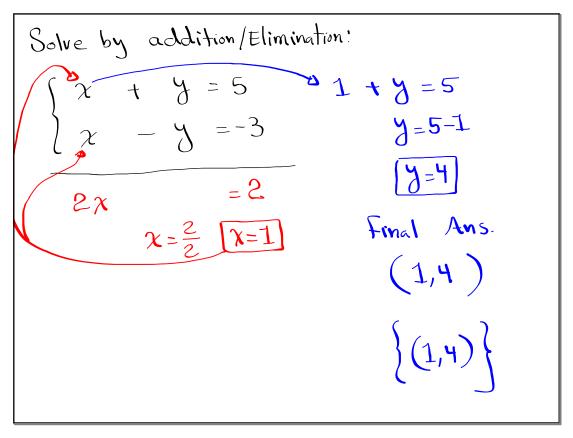


Solve by Sobs.
$$(3x - 5y = 15 \rightarrow 3x - 5(\frac{3}{5}x^{2} - 3) = 15$$

$$y = \frac{3}{5}x - 3$$
Distribute
$$3x - 5 \cdot \frac{3}{5}x + 15 = 15$$

$$3x - 3x + 15 = 15$$
In Finitely Many Solutions
$$15 = 15$$
True

Nov 8-8:10 AM



Solve by addition/elimination
$$\begin{cases}
3x + 2y = 9 \\
2x - 2y = 6
\end{cases}$$

$$5x = 15$$

$$x = 3$$

$$-y = 3 - 3$$

$$-y = 0$$

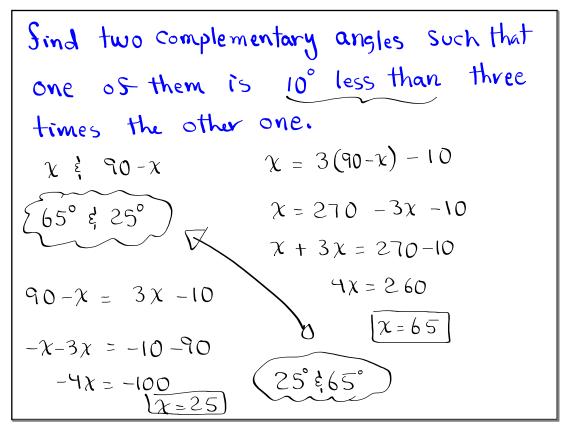
$$(3,0)$$

$$\{(3,0)\}$$

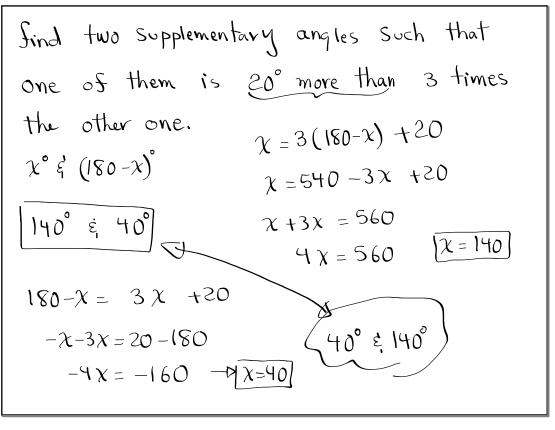
Nov 8-8:17 AM

Solve by addition/elimination  
method:  

$$3(5x - 4y = 8)$$
 |  $(5x - 12y = 24)$   
 $4(2x + 3y = -6)$  |  $(5x + 12y = -24)$   
 $2(0) + 3y = -6$  |  $(23x) = 0$   
 $(23x) = 0$ 



Nov 8-8:49 AM

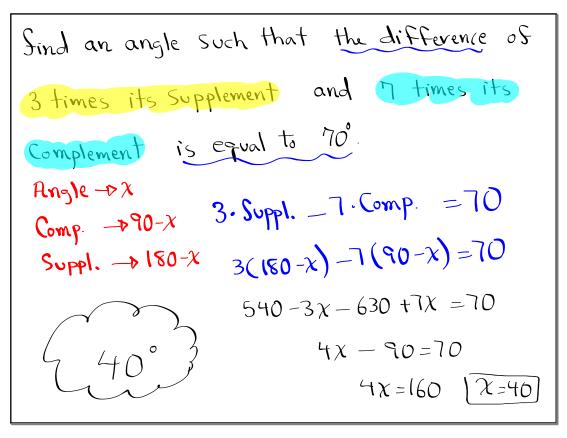


Find an angle Such that the Sum of twice its Complement and 3 times its

Supplement equals  $360^{\circ}$ .

Angle  $\rightarrow \chi$ Complement  $\rightarrow 90^{-\chi}$ Supplement  $\rightarrow 90^{-\chi}$ Supplement  $\rightarrow 180^{-\chi}$   $180^{-2\chi} + 540^{-3\chi} = 360$   $-5\chi + 720 = 360$   $-5\chi = 360^{-720}$   $-5\chi = -360$   $\chi = 72$ 

Nov 8-9:02 AM



In triangle ABC, Angle B is twice angle A.

Angle C is 4° more than 5 times angle A.

Sind all three angle.

$$\triangle A = \chi$$

$$\chi + 2\chi + 5\chi + 4 = 180$$

$$\Delta B = 2x$$

$$8x = 180 - 4$$

$$\Delta C = 5\chi + 4$$

 $\frac{8}{2} = 116$ 

Nov 8-9:14 AM

Exam 2: Next Thursday

In Your Package go to Points & Lines work on Problems 1-50.

It is due next Thursday

SG 8 & 9, and 10 Due Tuesday

No School on Monday

Also work on Angles E. Triangles Problems This will be due on Wednesday.