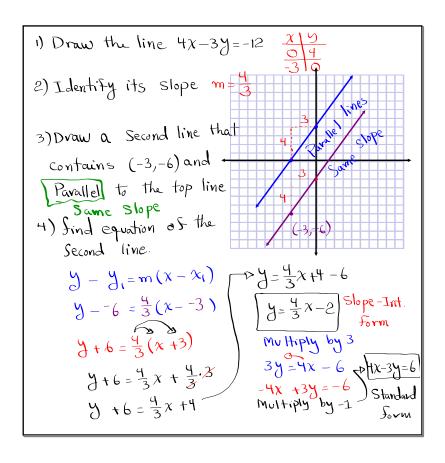
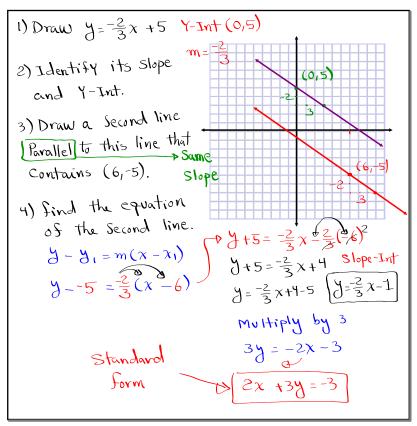
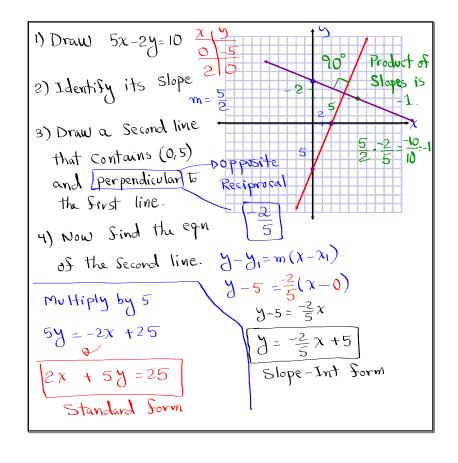
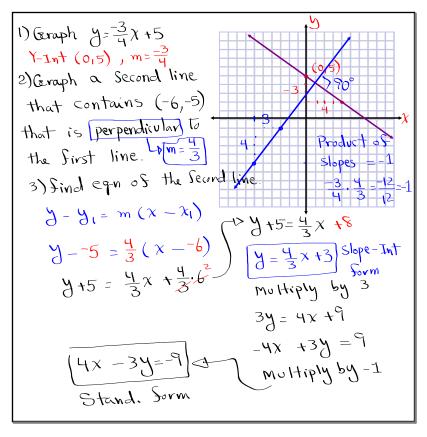


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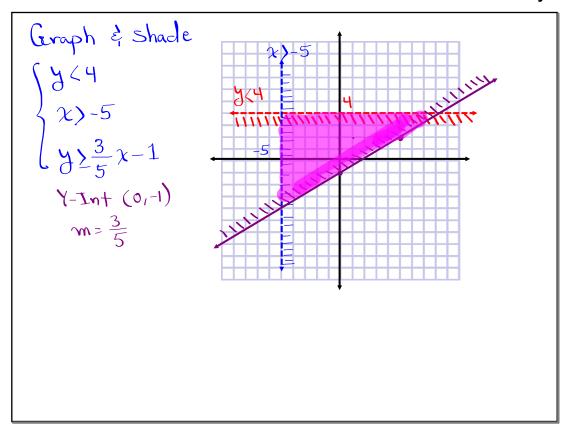


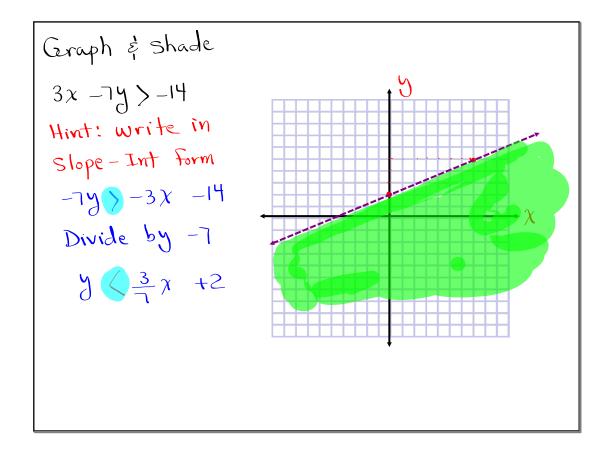






Sind equation of a line that contains
$$(5,-3)$$
 with a) NO slope b) Zero slope b) Zero





System of linear equations in two Variables

$$Ax + By = C, y = -\infty, x = -\infty$$

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$$A$$

Is
$$(5,2)$$
 a solution of
$$\begin{cases} x + y = 7 & 2 & x + y = 7 & x - y = 3 \\ x - y = 3 & 5 + 2 = 7 & 5 - 2 = 3 \end{cases}$$

$$7 = 7 \quad 3 = 3 \quad 7 = 7 \quad 7 =$$

How to Solve system of linear equations in

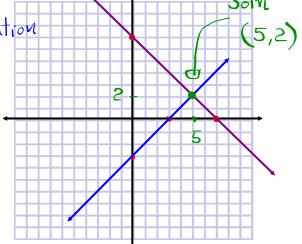
two Variables:

- . Graphing
 - . Substitution
 - . Addition/Elimination

Solve $\begin{cases} x + y = 7 \\ x - y = 3 \end{cases}$

by graphing.

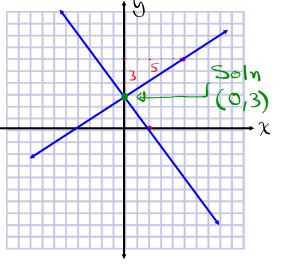




Solve $\begin{cases} 3x + 2y = 6 \\ y = \frac{3}{5}x + 3 \end{cases}$

by graphing method.

 $\frac{x \cdot 5}{0 \cdot 3}$ Y-Int (0,3) $\frac{3}{2 \cdot 0}$ $m = \frac{3}{5}$



Solve by graphing method:

$$\begin{cases} 4x - 5y = 20 \\ y = \frac{4}{5}x + 4 \end{cases}$$

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

$$\frac{x \mid 5}{0 \mid -4} \qquad \begin{array}{c} \text{Y-Int (0,4)} \\ m = \frac{4}{5} \end{array}$$

$$m = \frac{4}{5}$$

Same

No intersection Points

> No Solution.

Solve by graphing:

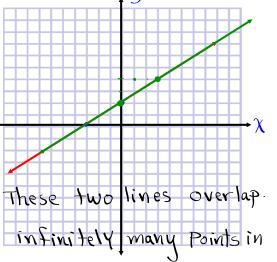
$$2x - 3y = -6$$

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

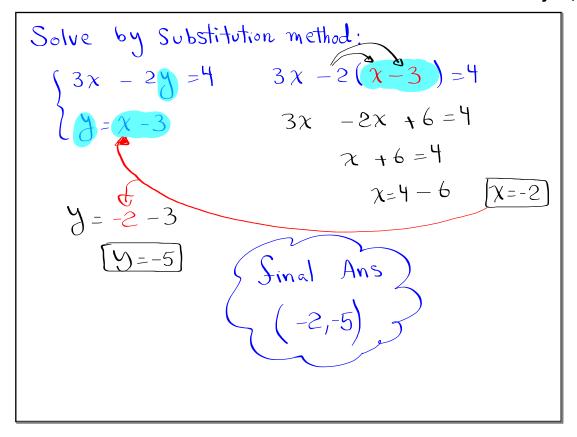
$$\frac{x \cdot y}{6 \cdot 2}$$
 $\frac{y-Int}{6 \cdot 2}$ $\frac{2}{3}$

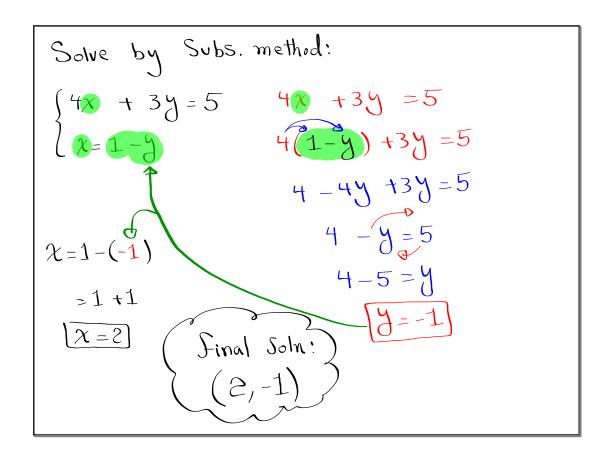
$$m = \frac{2}{3}$$

Infinitely Many Solutions.



Common.





Solve by Substitution method:

$$\begin{cases}
2x - 3y = 5 & 2x - 3(\frac{2}{3}x + 6) = 5 \\
2y - 3 \cdot \frac{2}{3}x - 3 \cdot 6 = 5
\end{cases}$$

$$2x - 2x - 18 = 5$$

$$-18 = 5$$

$$-18 = 5$$
False

Solve by Addition/Elimination
$$\begin{cases}
x + y = 7 & x + y = 7 \\
2x - y = 3
\end{cases}$$

$$\begin{cases}
x + y = 7 & y = 7 \\
2x = 10
\end{cases}$$
Final Ans
$$(5,2)$$

Solve by Addition/Elimination method:
$$\begin{cases}
3x + 2y = 7 \\
2x - 2y = -2
\end{cases}$$

$$3x + 2y = 7$$

$$2x - 2y = -2$$

$$5x = 5$$

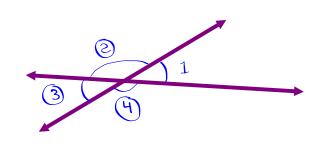
$$3(1) + 2y = 7$$

$$2y = 4$$
Sinal Ans
$$y = 2$$

$$y = 2$$

Solve by Addition/Elimination method:

$$-4(2x + 3y = 6)$$
 $-8x - 12y = -24$
 $3(3x + 4y = 7)$
 $-9 + 4y = 7$
 $-9 + 4$



Adjacent angles are Supplementary angles. Sum = 180°

opposite angles are equal and are Called

Vertical Angles.

$$(1) = 3$$

