

According to some students...

$$\begin{array}{r} \text{D) } 2x + 5y = 10 \\ -2x \qquad -2x \\ \hline 5y = \frac{-2x + 10}{5} \end{array}$$

$$y = -\frac{2}{5}x + 2$$

$$\begin{array}{r} \text{A) } 3x - 5y = 5 \\ -3x \qquad -3x \\ \hline -5y = \frac{-3x + 5}{-5} \end{array}$$

$$y = \frac{3}{5}x - 1$$

$$\begin{array}{r} \text{U) } 4x + 3y = 9 \\ -4x \qquad -4x \\ \hline 3y = \frac{-4x + 9}{3} \end{array}$$

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

$$\begin{array}{r} \text{u) } -7x - 4y = 16 \\ +7x \qquad +7x \\ \hline -4y = \frac{7x + 16}{-4} \end{array}$$

$$y = -\frac{7}{4}x - 4$$

$$\begin{array}{r} \text{L) } -2x + 3y = -21 \\ +2x \qquad +2x \\ \hline 3y = \frac{2x - 21}{3} \end{array}$$

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

$$\begin{array}{r} \text{R) } 4x - 2y = 7 \\ -4x \qquad -4x \\ \hline -2y = \frac{-4x + 7}{-2} \end{array}$$

$$y = 2x - \frac{7}{2}$$

$$\begin{array}{r} \text{I) } -x + 4y = 20 \\ +x \qquad +x \\ \hline 4y = \frac{x + 20}{4} \end{array}$$

$$y = \frac{1}{4}x + 5$$

$$\begin{array}{r} \text{I) } 9x + 3y = 1 \\ -9x \qquad -9x \\ \hline 3y = \frac{-9x + 1}{3} \end{array}$$

$$y = -3x + \frac{1}{3}$$



$$\begin{array}{r}
 s) \quad 6x - y = 4 \\
 \underline{-6x \quad -6x} \\
 -y = -6x + 4 \\
 \underline{-1 \quad -1} \\
 (m) \quad (b) \\
 \boxed{y = 6x - 4}
 \end{array}$$

$$\begin{array}{r}
 a) \quad 4x + 3y = 8 \\
 \underline{-4x \quad -4x} \\
 3y = -4x + 8 \\
 \underline{\quad \quad \quad 3} \\
 (m) \quad (b) \\
 \boxed{y = -\frac{4}{3}x + \frac{8}{3}}
 \end{array}$$

$$\begin{array}{r}
 n) \quad 5x - 9y = -7 \\
 \underline{-5x \quad -5x} \\
 -9y = -5x - 7 \\
 \underline{-9 \quad -9} \\
 (m) \quad (b) \\
 \boxed{y = \frac{5}{9}x + \frac{7}{9}}
 \end{array}$$

$$\begin{array}{r}
 f) \quad -2x + 7y = 0 \\
 \underline{+2x \quad +2x} \\
 7y = 2x \\
 \underline{\quad \quad \quad 7} \\
 (m) \quad (b) \\
 \boxed{y = \frac{2}{7}x + 0}
 \end{array}$$

$$\begin{array}{r}
 T) \quad 12x = 2y + 1 \\
 \underline{-2y \quad -2y} \\
 12x - 2y = 1 \\
 \underline{-12x \quad -12x} \\
 -2y = -12x + 1 \\
 \underline{-2 \quad -2} \\
 (m) \quad (b) \\
 \boxed{y = 6x - \frac{1}{2}}
 \end{array}$$

$$\begin{array}{r}
 F) \quad \frac{x + 4}{4} = \frac{4y}{4} \\
 (m) \quad (b) \\
 \boxed{y = \frac{1}{4}x + 1}
 \end{array}$$

$$\begin{array}{r}
 H) \quad 4x - 6y + 3 = 0 \\
 \underline{-4x \quad -3 \quad -4x} \\
 -6y = -4x - 3 \\
 \underline{-6 \quad -6} \\
 (m) \quad (b) \\
 \boxed{y = \frac{2}{3}x + \frac{1}{2}}
 \end{array}$$

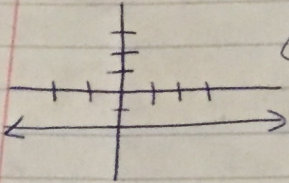
$$\begin{array}{r}
 v) \quad y - 2 = 0 \\
 \underline{+2 \quad +2} \\
 \boxed{y = 2}
 \end{array}$$

$m = 0$   
 $b = 2$



Why did the cow...

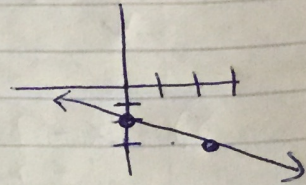
1)  $y = -2$



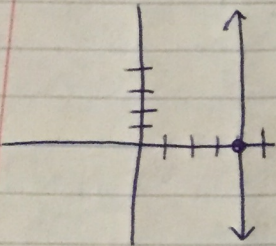
• Horizontal line through  $(0, -2)$ .  
• Every pt. on line has y value of  $-2$ .

4.)  $x + 2y - 4 = 0$   

$$\begin{array}{r} -x \quad -4 \quad -x-4 \\ \hline 2y = \frac{-x-4}{2} \\ \hline y = -\frac{1}{2}x - 2 \end{array}$$



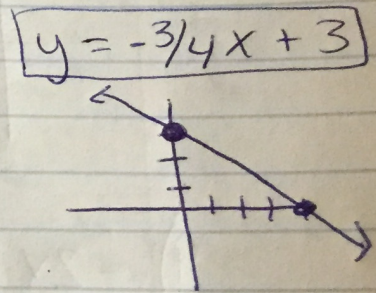
2.)  $x = 4$



• Undefined slope = vert line through  $(4, 0)$

5.)  $3x + 4y = 12$   

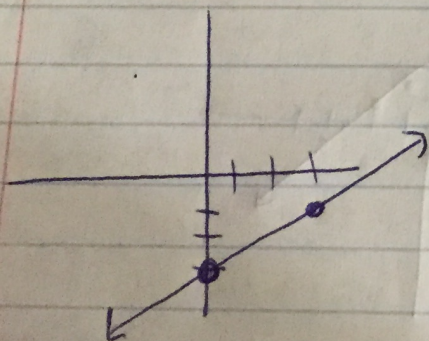
$$\begin{array}{r} -3x \quad -3x \\ \hline 4y = \frac{-3x + 12}{4} \\ \hline y = -\frac{3}{4}x + 3 \end{array}$$



3.)  $2x - 3y = 9$

$$\begin{array}{r} -2x \quad -2x \\ \hline -3y = \frac{-2x + 9}{-3} \\ \hline y = \frac{2}{3}x - 3 \end{array}$$

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

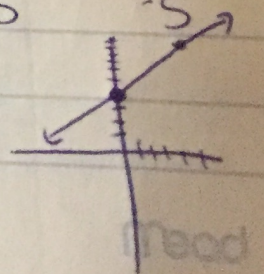


• Put in slope int. form first.  
• Plot "b" or y-int.  
•  $\frac{\text{rise}}{\text{run}}$  for slope.

6.)  $6x - 5y + 20 = 0$   

$$\begin{array}{r} -6x - 20 \quad -6x - 20 \\ \hline -5y = \frac{-6x - 20}{-5} \\ \hline y = \frac{6}{5}x + 4 \end{array}$$

$y = \frac{6}{5}x + 4$

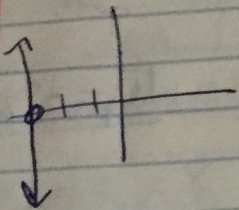




$$7) \quad \begin{array}{r} x+3=0 \\ -3 \quad -3 \end{array}$$

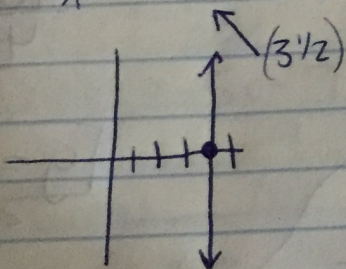
$$\boxed{x = -3}$$

Vertical line!



$$8) \quad \begin{array}{r} 2x-7=0 \\ +7 \quad +7 \\ \hline 2x = 7 \\ \hline \frac{2x}{2} = \frac{7}{2} \end{array}$$

$x = 7/2$  Vertical line.



$$9) \quad \begin{array}{r} -2x = 2y + 5 \\ -5 \quad -5 \end{array}$$

$$\frac{2y = -2x - 5}{2}$$

$$y = -x - 5/2$$

