

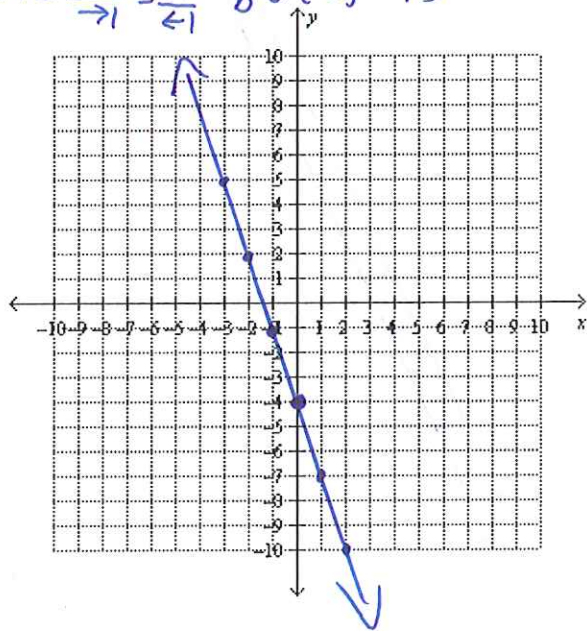
Arranging Equations to $y = mx + b$ Form.

Examples...

1. $3x + y = -4$
 $-3x \quad -3x$

$y = -3x - 4$

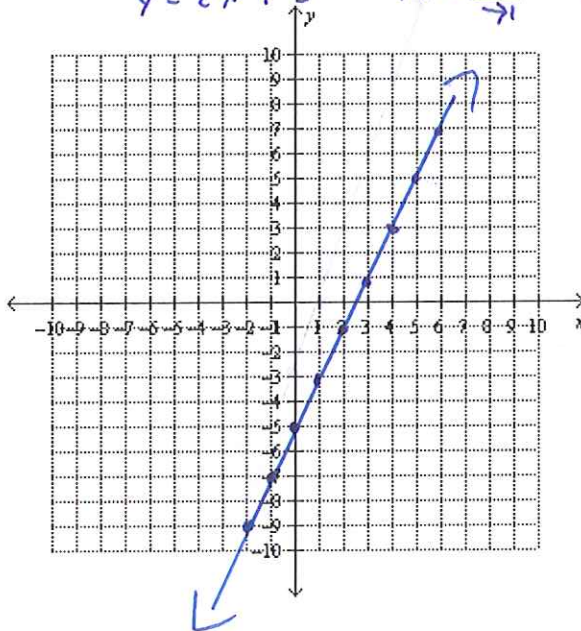
$m = \frac{\downarrow 3}{\rightarrow 1} = \frac{\uparrow 3}{\leftarrow 1} \quad b = (0, -4)$



2. $4x - 2y = 10$
 $-4x \quad -4x$

$-2y = \frac{-4x + 10}{-2}$

$y = 2x - 5 \quad m = \frac{\uparrow 2}{\rightarrow 1} \quad b = (0, -5)$

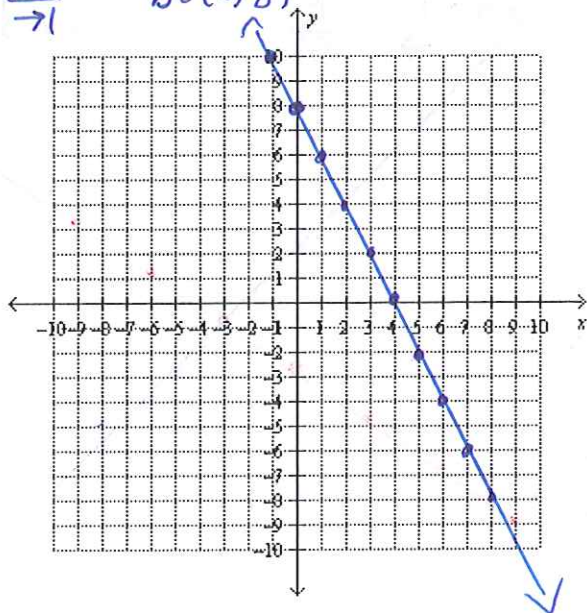


Now you try...

1. $2x + y = 8$
 $-2x \quad -2x$

$y = -2x + 8$

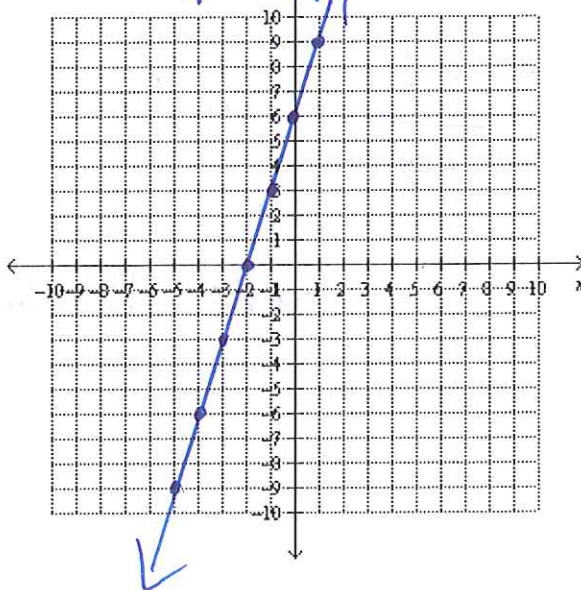
$m = \frac{\downarrow 2}{\rightarrow 1} \quad b = (0, 8)$



2. $-3x + y = 6$
 $+3x \quad +3x$

$y = 3x + 6$

$m = \frac{\uparrow 3}{\rightarrow 1} = \frac{\downarrow 3}{\leftarrow 1} \quad b = (0, 6)$

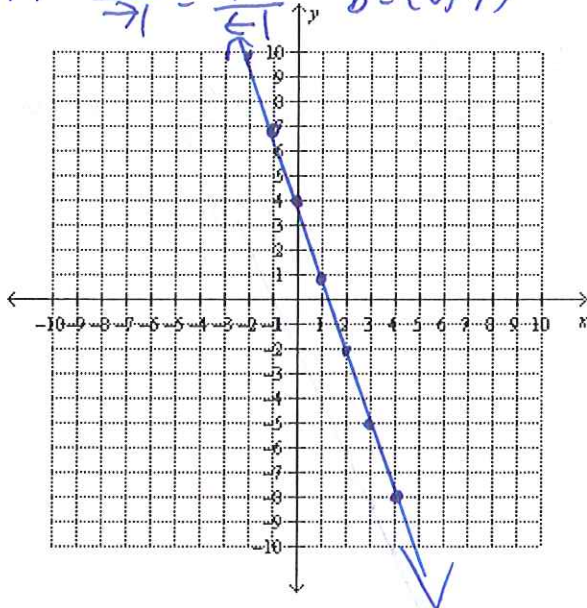


$$6x + 2y = 8$$

$$\frac{2y}{2} = \frac{-6x + 8}{2}$$

$$y = -3x + 4$$

$$m = \frac{\downarrow 3}{\rightarrow 1} = \frac{\uparrow 3}{\leftarrow 1} \quad b = (0, 4)$$

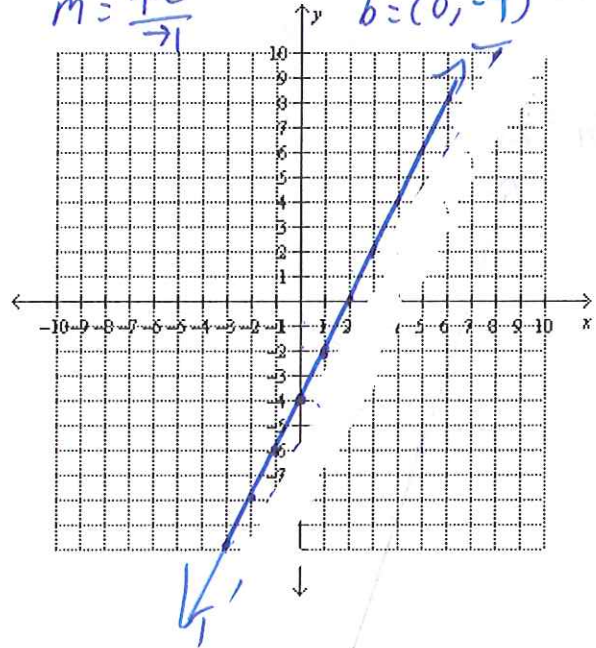


$$4. \quad 6x - 3y = 12$$

$$\frac{-3y}{-3} = \frac{-6x + 12}{-3}$$

$$y = 2x - 4$$

$$m = \frac{\uparrow 2}{\rightarrow 1} \quad b = (0, -4)$$



$$5. \quad 4x - 6y = 12$$

$$\frac{-6y}{-6} = \frac{-4x + 12}{-6}$$

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

$$m = \frac{\uparrow 2}{\rightarrow 3} \quad b = (0, -2)$$

$$m = \frac{\uparrow 2}{\rightarrow 3} \quad b = (0, -2)$$

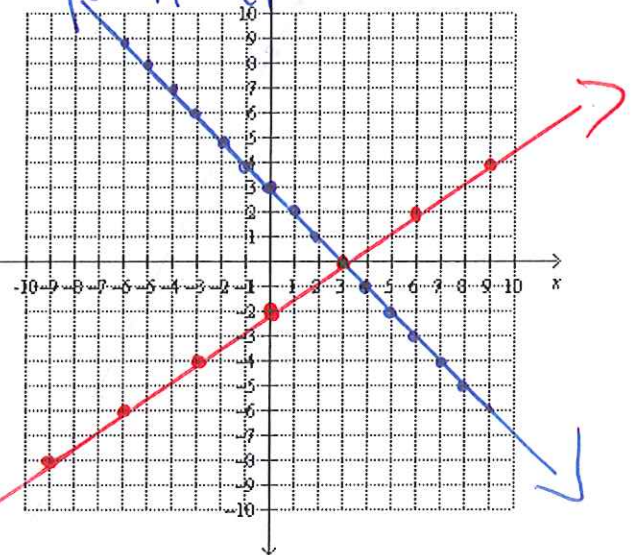
#5 is the RED Line

$$6. \quad 2x + 2y = 6$$

$$\frac{2y}{2} = \frac{-2x + 6}{2}$$

$$y = -x + 3$$

$$m = \frac{\downarrow 1}{\rightarrow 1} = \frac{\uparrow 1}{\leftarrow 1} \quad b = (0, 3)$$



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