

Name Key

8 Period \_\_\_\_\_

Date \_\_\_\_\_

## Rewriting Equations in Slope-Intercept Form Homework

Rewrite each of the following equations in slope-intercept form:  $y = mx + b$ .

$$1) \quad \begin{array}{r} 8x - 4y = 20 \\ \underline{-8x} \quad \underline{-8x} \\ -4y = -8x + 20 \\ \underline{-4} \quad \underline{-4} \end{array}$$

$$y = 2x - 5$$

$$3) \quad \begin{array}{r} 2x + y = -11 \\ \underline{-2x} \quad \underline{-2x} \end{array}$$

$$y = -2x - 11$$

$$5) \quad \frac{3y = 4x - 27}{3}$$

$$y = \frac{4}{3}x - 9$$

$$7) \quad y + 9 = 2(x + 5)$$

$$\begin{array}{r} y + 9 = 2x + 10 \\ \underline{-9} \quad \underline{-9} \end{array}$$

$$y = 2x + 1$$

$$2) \quad \begin{array}{r} 2x + 3y = 12 \\ \underline{-2x} \quad \underline{-2x} \end{array}$$

$$\frac{3y}{3} = \frac{-2x + 12}{3}$$

$$y = -\frac{2}{3}x + 4$$

$$4) \quad \begin{array}{r} 0.8x + 0.4y = 1.2 \\ \underline{-0.8x} \quad \underline{-0.8x} \end{array}$$

$$\frac{0.4y}{0.4} = \frac{-0.8x + 1.2}{0.4}$$

$$y = -0.2x + 0.3$$

$$6) \quad \begin{array}{r} x - 4y = 8 \\ \underline{-x} \quad \underline{-x} \end{array}$$

$$\frac{-4y}{-4} = \frac{-x + 8}{-4}$$

$$y = \frac{1}{4}x - 2$$

$$8) \quad y - 1 = \frac{2}{3}(x + 3)$$

$$\begin{array}{r} y - 1 = \frac{2}{3}x + 2 \\ \underline{+1} \quad \underline{+1} \end{array}$$

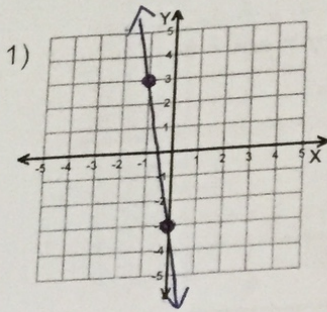
$$y = \frac{2}{3}x + 3$$

Name : Key  
 Teacher : \_\_\_\_\_

Score : \_\_\_\_\_

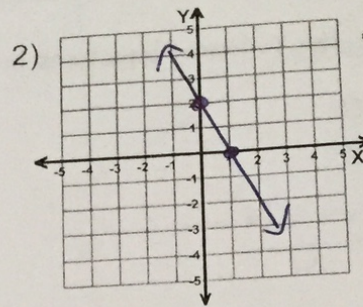
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Sketch Each Line

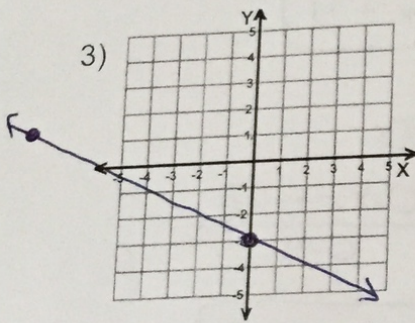


equation  $y = -6x - 3$

$y_{int} = -3$   
 $slope = -\frac{6}{1}$

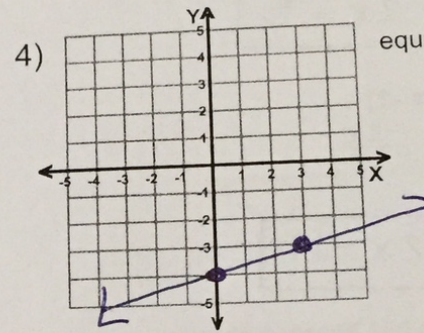


equation  $y = -2x + 2$

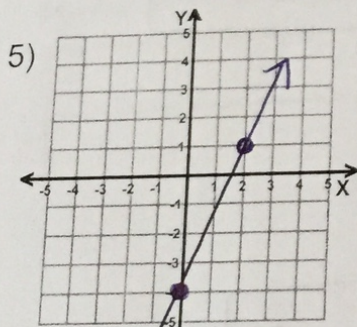


equation  $y = -\frac{4}{9}x - 3$

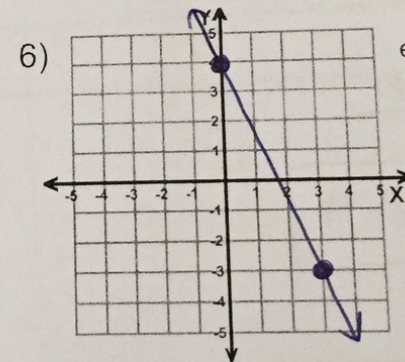
\*Negative slope  
 You can move up  
 and left (or)  
 down & right.



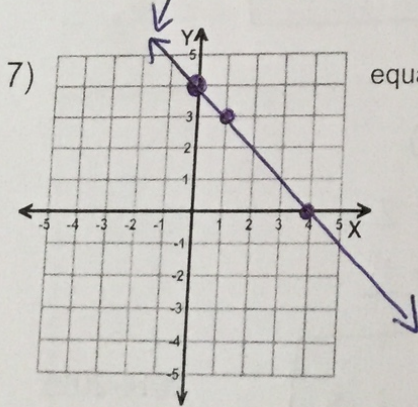
equation  $y = \frac{1}{3}x - 4$



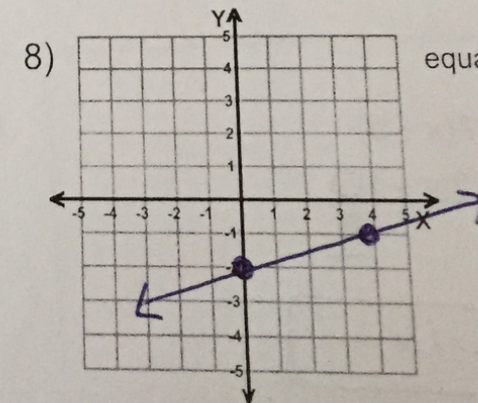
equation  $y = \frac{5}{2}x - 4$



equation  $y = -\frac{7}{3}x + 4$



equation  $y = -x + 4$



equation  $y = \frac{1}{4}x - 2$

