

Review for Test

perpendicular, $y=mx+b$, finding "k", intercepts

through $(5, -7)$ and $(-2, -7)$.
 $m = \frac{-7 - (-7)}{-2 - 5} = \frac{0}{-7} = 0$

$(11, k)$. Find k if the slope is parallel to the x-axis.

$(y + 7) = 5x - 6$.

$(-9, 8)$. Find the value of k if the slope is parallel to $y=7x-6$.

$(k, 9)$. Find k if the slope of the line is perpendicular to $5/6$.

represented by $10(x+4) = 5(5y-2)$.

$(2k, 6)$. Find k if the slope of the line is parallel to $-3/7$.

x-intercept of 7 and a y-intercept of -9.

(k) and $(-8k, 6)$. Find k if the slope of the line

$2x + 4y = 16$.

$$2. \frac{k+1}{11-6} = \frac{0}{1}$$

$$\frac{k+1}{5} = \frac{0}{1}$$

$$k+1 = 0$$
$$k = -1$$

$$3. 3(y+7) = 5x-6-21$$
$$3y+21 = 5x-6$$

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

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

$$m = \frac{-3}{5}$$

$$4. \begin{array}{c} x_1 \quad y_1 \\ (k, -4) \end{array} \begin{array}{c} x_2 \quad y_2 \\ (-9, 8) \end{array} \quad m = \frac{7}{1}$$

$$\frac{7}{1} = \frac{8 - (-4)}{-9 - k}$$

$$\frac{7}{1} = \frac{12}{-9 - k}$$

$$7(-9 - k) = 12$$

$$\textcircled{-63} - 7k = 12 + 63$$

$$\frac{-7k}{-7} = \frac{75}{-7}$$

$$k = \frac{75}{-7}$$

$$5. \quad \begin{matrix} x_1 & y_1 & & x_2 & y_2 \\ (6, 7) & & & (5k, 9) \end{matrix} \quad m = \frac{-6}{5}$$

$$m = \frac{y_2 - y_1}{x_2 - x_1}$$

$$\frac{-6}{5} = \frac{9 - 7}{5k - 6}$$

$$\frac{-6}{5} = \frac{2}{5k - 6}$$

$$-6(5k - 6) = 10$$

$$-30k + 36 = 10 - 36$$

$$-30k = -26$$

$$k = \frac{13}{15}$$

$$6. 10(x+4) = 5(5y-2)$$

$$10x + 40 = 25y - 10$$

$$25y - 10 = 10x + 40$$

$$\frac{25y}{25} = \frac{10x}{25} + \frac{50}{25}$$

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

$$m = \frac{2}{5}$$

$$7. \quad \begin{matrix} x_1 & y_1 & & x_2 & y_2 \\ (2k, 0) & & & (3k, 6) & \end{matrix} \quad m = -\frac{3}{7}$$

$$-\frac{3}{7} = \frac{6-0}{3k-2k}$$

$$\cancel{\frac{-3}{7}} = \cancel{\frac{6}{1k}}$$

$$\frac{-3k}{-3} = \frac{42}{-3}$$

$$k = -14$$

$$8. \quad \begin{matrix} x_1 & y_1 \\ (7, & 0) \end{matrix} \begin{matrix} x_2 & y_2 \\ (0, & -9) \end{matrix}$$

$$\frac{-9 - 0}{0 - 7}$$

$$\frac{-9}{-7}$$

$$m = \frac{9}{7}$$

9. $\begin{matrix} x_1 & y_1 \\ (3, & 5K) \end{matrix} \begin{matrix} x_2 & y_2 \\ (-8K, & 6) \end{matrix}$

$$y = \frac{6}{3}x + 11$$

$$\frac{-1}{2} = \frac{6 - 5K}{-8K - 3}$$

$$\frac{-1}{2}$$

$$2(6 - 5K) = -1(-8K - 3)$$

$$(12) - 10K = (+8K) + 3 - 12$$

$$\frac{-18K}{-18} = \frac{-9}{-18}$$

$$K = \frac{1}{2}$$

10.

$$12x + 4y = 16$$

$$\frac{4y}{4} = -\frac{12x}{4} + \frac{16}{4}$$

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

$$m = \frac{1}{3}$$

12. State the slope

a)

$$\frac{2}{5}y + 4 = 2x + 2$$

$$2y + 20 = 10x + 10$$

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

$$y = 5x - 5$$

$$\frac{-7k = 75}{7} \quad k = \frac{15}{-7}$$

$$12b) \quad 6(2y + 1) = 2(7x - 9)$$

$$12y + 6 = 14x - 18 - 6$$

$$\frac{12y}{12} = \frac{14x - 24}{12}$$

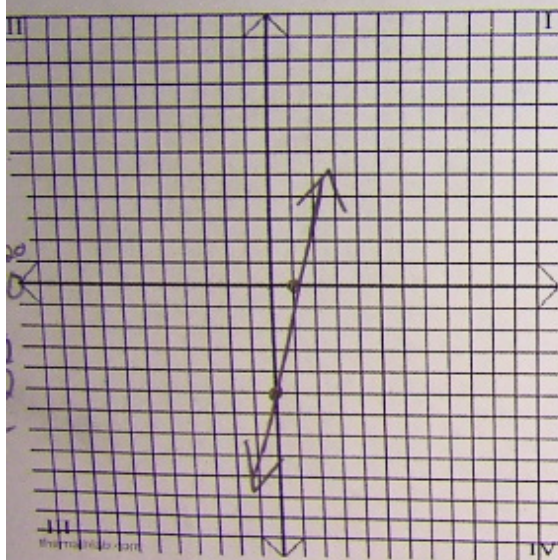
$$y = \frac{7x}{6} - 2$$

6.

Equation: _____

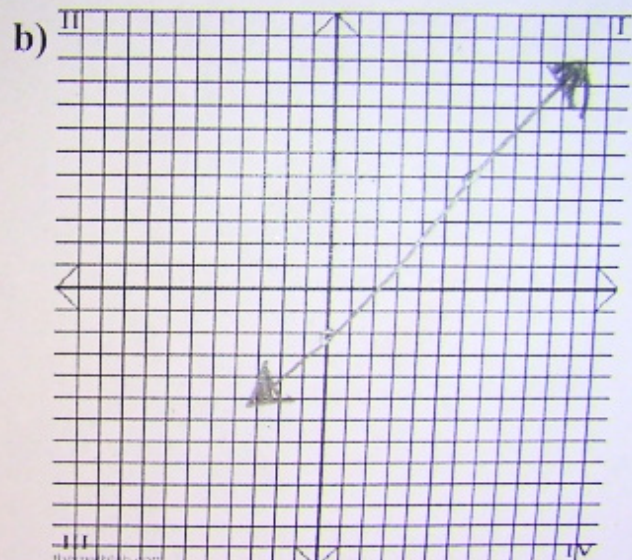
Equation: _____

Find the slope, and y-intercept, then graph.



Slope (m): 5 5/1

Y-intercept(b): -5



Slope (m): 7/6

Y-intercept(b): -2

Y-intercept (b): _____

13. Wanda wants a charm bracelet that costs \$25 and
- Write the equation to represent the situation
 - How much will it cost for 8 charms?
 - How many charms can Wanda purchase for

a) $y = 9x + 25$

b) $y = 9(8) + 25$
 $= 72 + 25$

$= 97$

c) $110 = 9x + 25$

$\frac{85}{9} = \frac{9x}{9}$

$x = 9.4$

9 ch