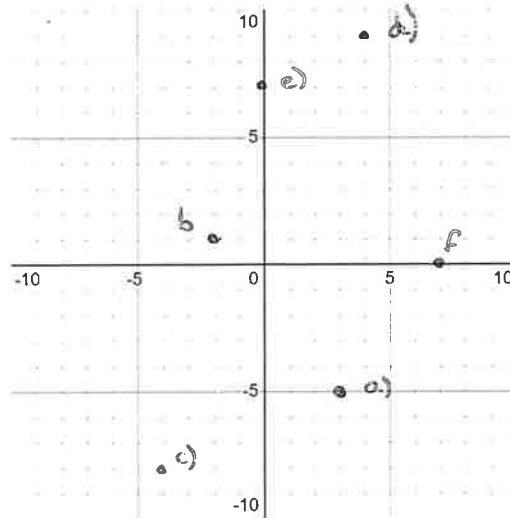


KEY

Section 2.2a - Practice Refresher

Place the following points on the grid provided.

a) (3, -5)	b) (-2, 1)	c) (-4, -8)
d) (4, 9)	e) (0, 7)	f) (7, 0)

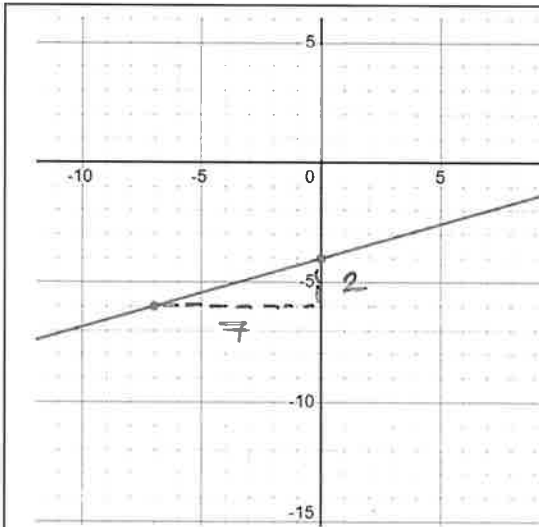


Use the Slope Equation to determine the Slope of the line connecting the following sets of points.

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

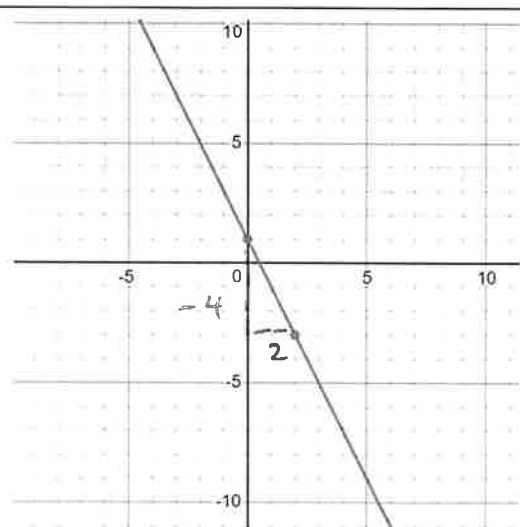
a) (2, 3) and (-5, 7) $\frac{7-3}{-5-2} = \frac{4}{-7}$ $\boxed{-\frac{4}{7}}$	b) (1, 6) and (-2, 5) $\frac{5-6}{-2-1} = \frac{-1}{-3}$ $\boxed{\frac{1}{3}}$	c) (4, 0) and (4, -2) $\frac{-2-0}{4-4} = \frac{-2}{0}$ $\boxed{\text{undefined}}$
d) (-3, -7) and (6, 11) $\frac{11-(-7)}{6-(-3)} = \frac{18}{9}$ $\boxed{2}$	e) (2, 5) and (3, 6) $\frac{6-5}{3-2} = \frac{1}{1}$ $\boxed{1}$	f) (6, 5) and (-2, 5) $\frac{5-5}{-2-6} = \frac{0}{-8}$ $\boxed{0}$

Determine (Map) the slopes, and the y-intercepts of the following graphs (Draw and Count)



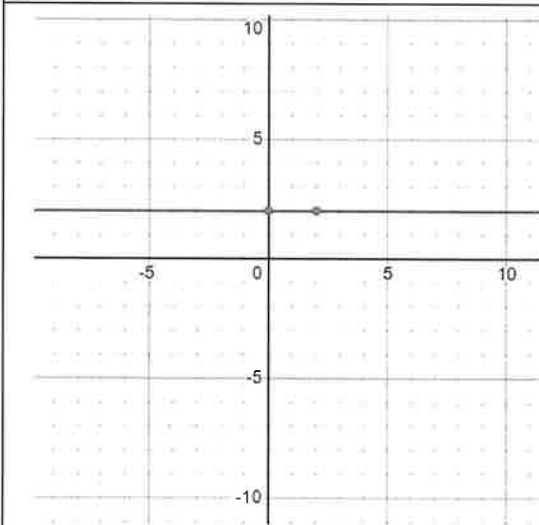
Slope is: $\frac{2}{7}$

y-intercept: $(0, -4)$



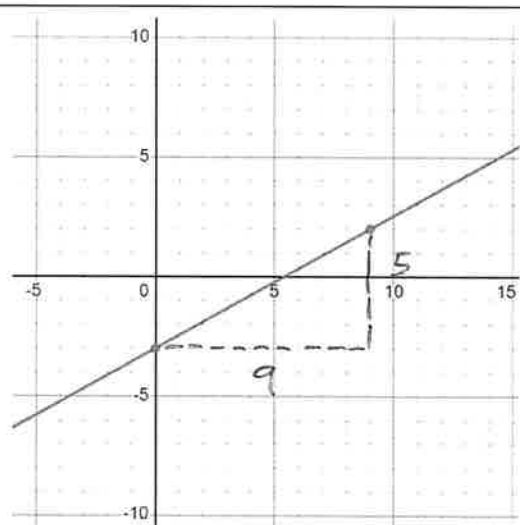
Slope is: $-\frac{4}{2} = -2$

y-intercept: $(0, 1)$



Slope is: 0

y-intercept: $(0, 2)$



Slope is: $\frac{5}{9}$

y-intercept: $(0, -3)$

Are the following points solutions to the given equations? (Are the Points on the Line?) Prove it. No Graphing.

a) $y = -\frac{2}{5}x - 2; (5, 4)$

$$4 = -\frac{2}{5}(5) - 2$$

$$4 = -2 - 2$$

$$4 = -4 \quad \text{NOT TRUE}$$

NOT A SOLUTION

b) $y = \frac{2}{3}x + 1; (6, 5)$

$$5 = \frac{2}{3}(6) + 1$$

$$5 = 2(2) + 1$$

$$5 = 5 \quad \text{YES}$$

IT IS A SOLUTION

c) $y = -\frac{5}{7}x + 4; (-7, 1)$

$$1 = -\frac{5}{7}(-7) + 4$$

$$1 = 5 + 4$$

$$1 = 9$$

NOPE

NOT A SOLUTION

d) $y = \frac{3}{2}x - \frac{1}{2}; (5, 7)$

$$7 = \frac{3}{2}(5) - \frac{1}{2}$$

$$7 = \frac{15}{2} - \frac{1}{2}$$

$$7 = \frac{14}{2}$$

$$7 = 7$$

YES

IT IS A SOLUTION

e) $y = -x + 2; (-4, 2)$

$$2 = -(-4) + 2$$

$$2 = 6 + 2$$

$$2 = 8$$

NOPE

NOT A SOLUTION

Pick any 3 x-values

Find three points, other than the y-intercept, that exist on the given lines.

a) $y = 2x - 5$	let $x = 1$ $y = 2(1) - 5$ $2 - 5$ $y = -3$ $(1, -3)$	let $x = 9$ $y = 2(9) - 5$ $y = 18 - 5$ $y = 13$ $(9, 13)$	let $x = -1$ $y = 2(-1) - 5$ $y = -2 - 5$ $y = -7$ $(-1, -7)$
b) $y = -\frac{4}{5}x - 2$	$x = 5$ $y = -\frac{4}{5}(5) - 2$ $y = -4 - 2$ $y = -6$ $(5, -6)$	$x = 10$ $y = -\frac{4}{5}(10) - 2$ $y = -4(2) - 2$ $y = -10$ $(10, -10)$	$x = -5$ $y = -\frac{4}{5}(-5) - 2$ $y = 4 - 2$ $y = 2$ $(-5, 2)$

→ Pick multiples of 5 to remove the denominator

How would you rate your Level of Understanding on this information? Emerging, Proficient, Extending?

What strategies will you implement to help you improve?