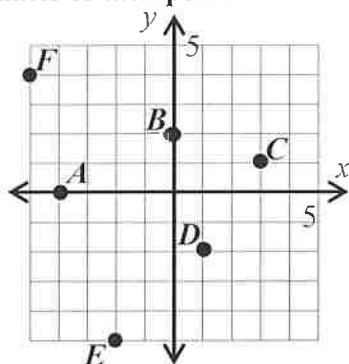


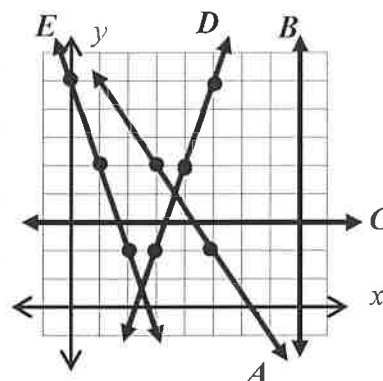
1) Write the coordinates of each point.

- A _____
- B _____
- C _____
- D _____
- E _____
- F _____



2) Find the slope of each line.

- _____ Slope of A
- _____ Slope of B
- _____ Slope of C
- _____ Slope of D
- _____ Slope of E



3) Find the slope of the line containing the points.

a) $(4, 8)$ $(4, 2)$

b) $(-7, 12)$ $(-3, -2)$

c) $(-4, -6)$ $(-2, -6)$

d) $(8, 2)$ $(2, 5)$

$m =$ _____

$m =$ _____

$m =$ _____

$m =$ _____

4) Change to slope-intercept form ($y = mx + b$). Then, identify the slope and y-intercept.

a) $6x - 7 = y$

b) $6x + 3y = 18$

c) $5x - y = 15$

equation _____

equation _____

equation _____

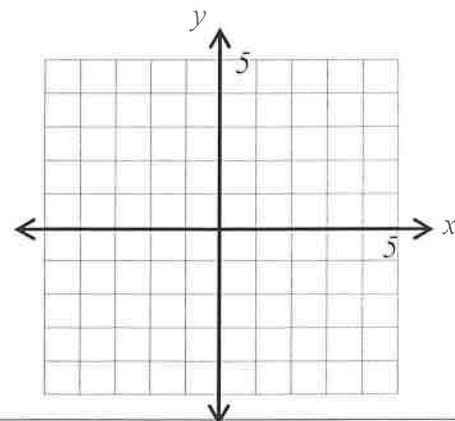
slope = _____ y-int. _____

slope = _____ y-int. _____

slope = _____ y-int. _____

5) Fill in the table and graph. $y = \frac{5}{2}x - 5$

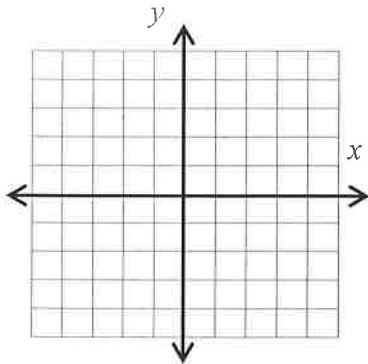
x	y	(x, y)
2		
0		
-2		



6) Find the slope and y-intercept. Then, graph each line using the slope and y-intercept. Scale your graphs!

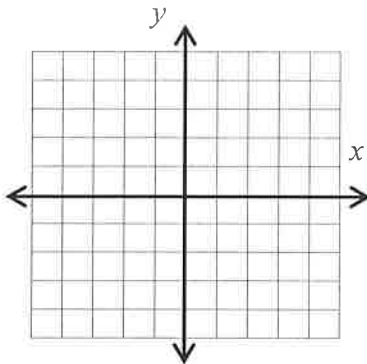
a) $y = 3x - 1$

$m =$ _____ y -int. _____



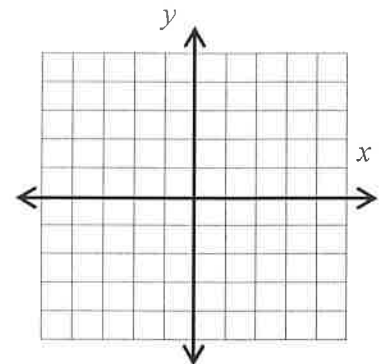
b) $y = -\frac{x}{4} - 2$

$m =$ _____ y -int. _____



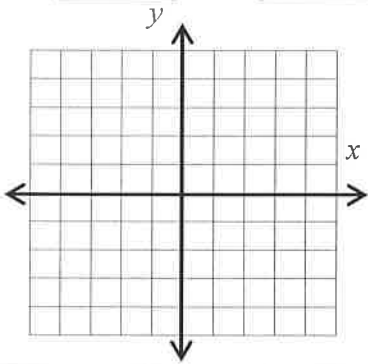
c) $y = 4x$

$m =$ _____ y -int. _____



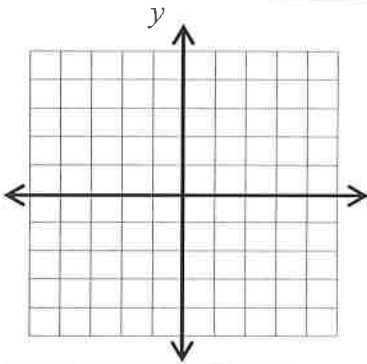
d) $y = x + 2$

$m =$ _____ y -int. _____



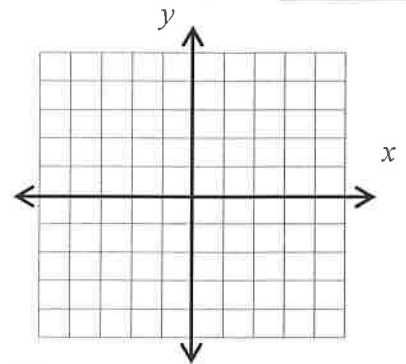
e) $y = -8$

$m =$ _____ y -int. _____



f) $x = 16$

$m =$ _____ y -int. _____



7) Write the equation of each line using the given information.

a) $m = 7$ and $b = -2$

equation _____

b) slope = $\frac{3}{7}$ and y -intercept $(0, 9)$

equation _____

c) $m = -\frac{1}{4}$ and y -intercept $(0, 0)$

equation _____

d) $m = 3$ contains point $(4, 2)$

slope = _____ y -int. _____

equation _____

e) $m = \frac{1}{3}$ contains point $(6, -4)$

slope = _____ y -int. _____

equation _____

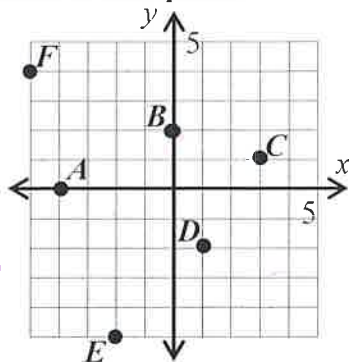
f) containing the points $(3, 7)$ $(4, 2)$

slope = _____ y -int. _____

equation _____

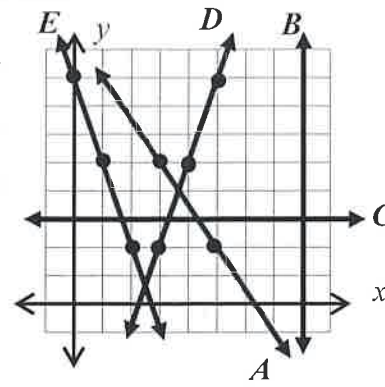
1) Write the coordinates of each point.

- A $(-4, 0)$
- B $(0, 2)$
- C $(3, 1)$
- D $(1, -2)$
- E $(-2, -5)$
- F $(-5, 4)$



2) Find the slope of each line.

- $-\frac{3}{2}$ Slope of A
- undefined Slope of B
- 0 Slope of C
- $\frac{3}{1}$ Slope of D
- ~~$\frac{4}{2}$~~
 -3 Slope of E



3) Find the slope of the line containing the points.

a) (4, 8) (4, 2)

$$\frac{8-2}{4-4} = \frac{6}{0}$$

$m =$ undefined

b) (-7, 12) (-3, -2)

$$\frac{12-(-2)}{-7-(-3)} = \frac{14}{-4}$$

$m =$ $\frac{14}{-4}$ or $-\frac{7}{2}$

c) (-4, -6) (-2, -6)

$$\frac{-6-(-6)}{-4-(-2)} = \frac{0}{-2}$$

$m =$ 0

d) (8, 2) (2, 5)

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

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

4) Change to slope-intercept form ($y = mx + b$). Then, identify the slope and y-intercept.

a) $6x - 7 = y$

$$y = 6x - 7$$



equation _____

slope = 6 y-int. -7

b) $6x + 3y = 18$

$$\begin{aligned} -6x & \quad -6x \\ 3y & = -6x + 18 \\ \frac{3y}{3} & = \frac{-6x + 18}{3} \end{aligned}$$

$$y = -2x + 6$$



equation _____

slope = -2 y-int. 6

c) $5x - y = 15$

$$\begin{aligned} & \quad +y \quad +y \\ 5x & = 15 + y \\ -15 & \quad -15 \\ y & = 5x - 15 \end{aligned}$$

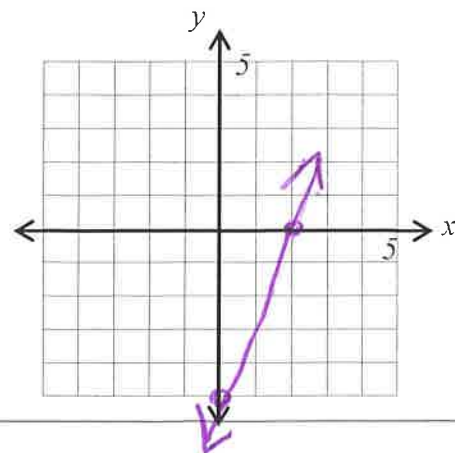


equation _____

slope = 5 y-int. -15

5) Fill in the table and graph. $y = \frac{5}{2}x - 5$

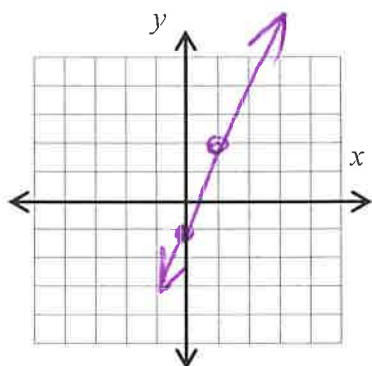
x	y	(x, y)
2	$\frac{5}{2}(\frac{2}{1}) - 5 = 5 - 5$	(2, 0)
0	$\frac{5}{2}(0) - 5 = 0 - 5$	(0, -5)
-2	$\frac{5}{2}(\frac{-2}{1}) - 5 = -5 - 5$	(-2, -10)



6) Find the slope and y-intercept. Then, graph each line using the slope and y-intercept. Scale your graphs!

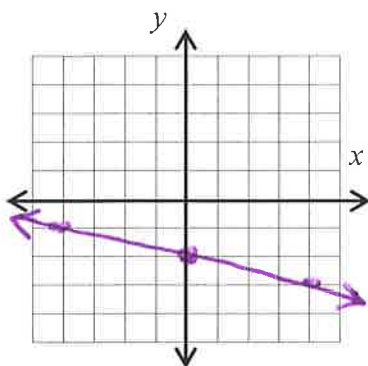
a) $y = 3x - 1$

$m = 3$ y-int. -1



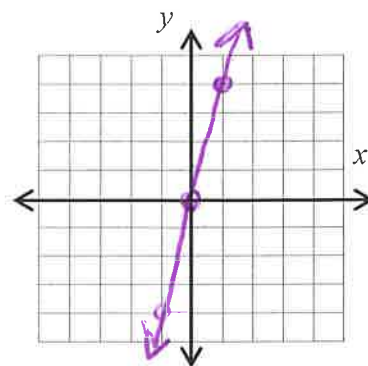
b) $y = -\frac{x}{4} - 2$

$m = -\frac{1}{4}$ y-int. -2



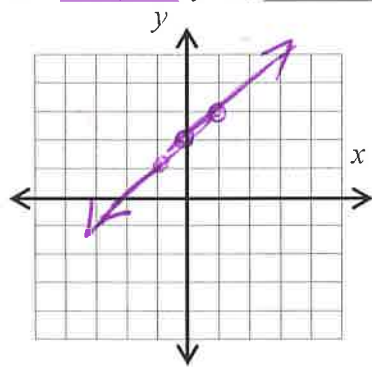
c) $y = 4x$

$m = 4$ y-int. 0



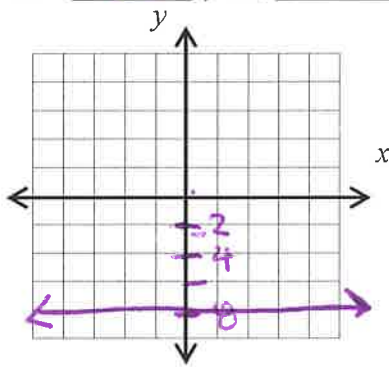
d) $y = x + 2$

$m = 1$ y-int. 2



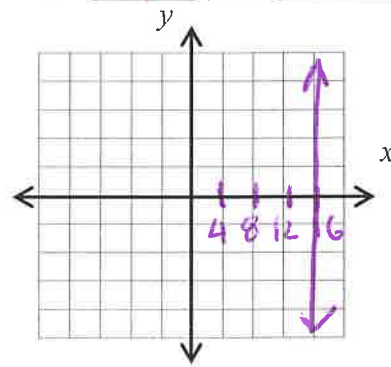
e) $y = -8$

$m = 0$ y-int. -8



f) $x = 16$

$m =$ ~~0~~ y-int. ~~16~~



7) Write the equation of each line using the given information.

a) $m = 7$ and $b = -2$

equation $y = 7x - 2$

b) slope = $\frac{3}{7}$ and y-intercept $(0, 9)$

equation $y = \frac{3}{7}x + 9$

c) $m = -\frac{1}{4}$ and y-intercept $(0, 0)$

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

d) $m = 3$ contains point $(4, 2)$

$$2 = 3(4) + b$$

$$2 = 12 + b$$

$$\frac{-12 \quad -12}{b = -10}$$

slope = 3 y-int. -10
equation $y = 3x - 10$

e) $m = \frac{1}{3}$ contains point $(6, -4)$

$$y = mx + b$$

$$-4 = 6\left(\frac{1}{3}\right) + b$$

$$-4 = 2 + b$$

$$\frac{-2 \quad -2}{-6 = b}$$

slope = $\frac{1}{3}$ y-int. -6
equation $y = \frac{1}{3}x - 6$

f) containing the points $(3, 7)$ $(4, 2)$

$$\frac{7 - 2}{3 - 4} = \frac{5}{-1}$$

$$y = mx + b$$

$$7 = -5(3) + b$$

$$7 = -15 + b$$

$$\frac{+15 \quad +15}{22 = b}$$

slope = -5 y-int. 22
equation $y = -5x + 22$