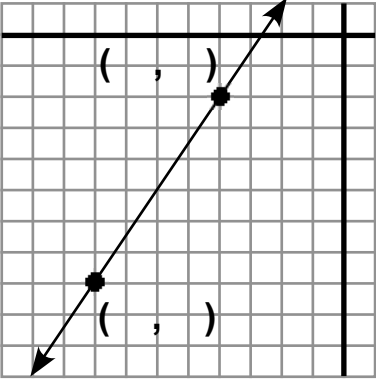
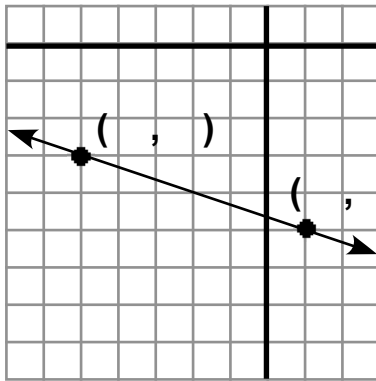


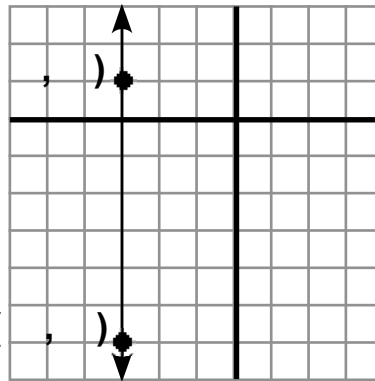
I. Find the slope of the line through the given pair of points by first drawing a slope triangle and finding its dimensions. Next find the coordinates for the two given points. Then use the slope formula to find the slope.

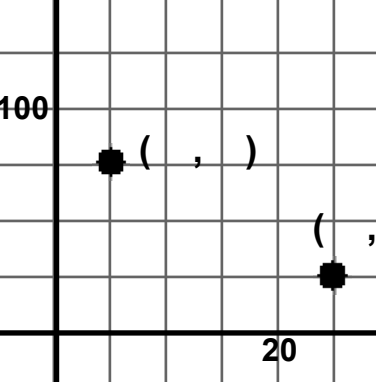
(a) 

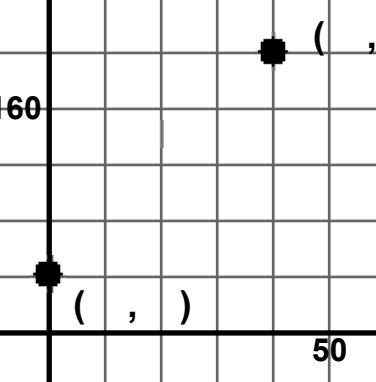
slope formula equation

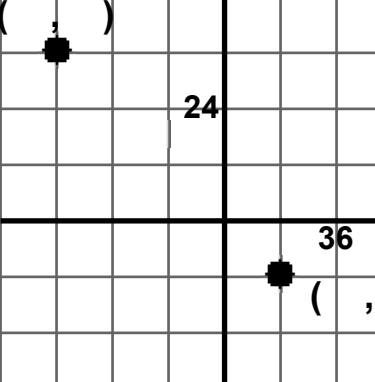
$m = \frac{\quad}{\quad} = \quad$

(b) 

(c) 

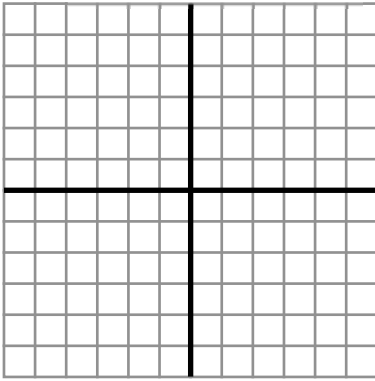
(d) 

(e) 

(f) 

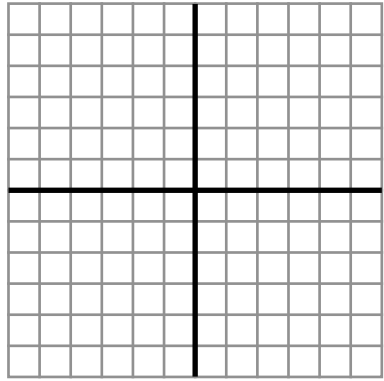
II. Graph the lines satisfying the given conditions. Then find the equation for the line.

(a) $m = -\frac{4}{3}$; y -int. $(0, 2)$

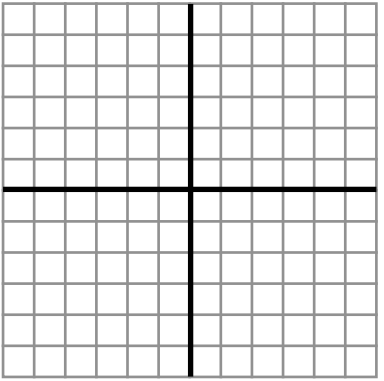


$y =$ _____

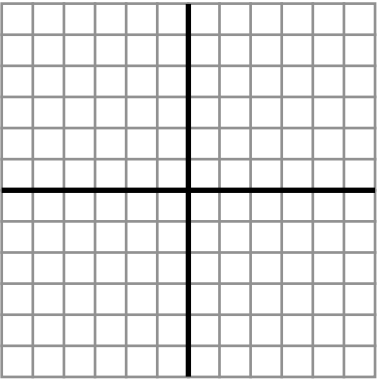
(b) $m = 2$, through $(2, 4)$



(c) through $(-3, 1)$ & $(3, -3)$



(d) through $(-3, -2)$ & $(4, -2)$



III. Symbolically find the x & y-intercepts by using substitution. Show all work.

(a) $5x - 3y = 30$

(b)

$$\frac{2}{3}y = -\frac{1}{2}x + 4$$

IV. Change each of the following functions into slope-intercept form ($y = mx + b$). Then graph each line.

(a) $-5x - 3y = 3$

(b)

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

x-int.
y = ___

x-int.
y = ___

x-int.: (,)

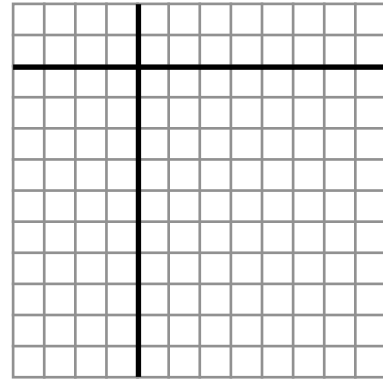
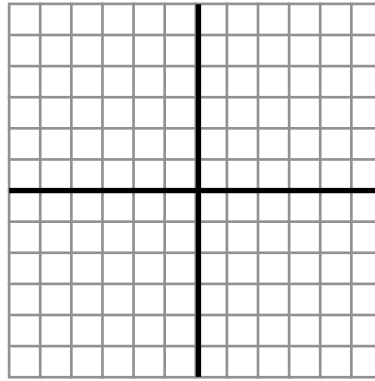
x-int.: (,)

y-int.
x = ___

y-int.
x = ___

y-int.: (,)

y-int.: (,)



V. Solve the following systems using substitution. Check first answer in both equations. Show all steps.

(a) $y = \frac{2}{3}x - 1$ and $y = \frac{3}{4}x - 2$

(b) $3x - 2y = 6$ $2y - 14 = 8x$

POI
(,)

POI
(,)

VI. Solve the following systems using elimination. Check first answer in both equations. Show all steps.

(a) $5x + 6y = -3$
 $-2x + 3y = 39$

(b) $7x + 2y = 22$
 $3x - 5y = 27$

POI
(,)

POI
(,)