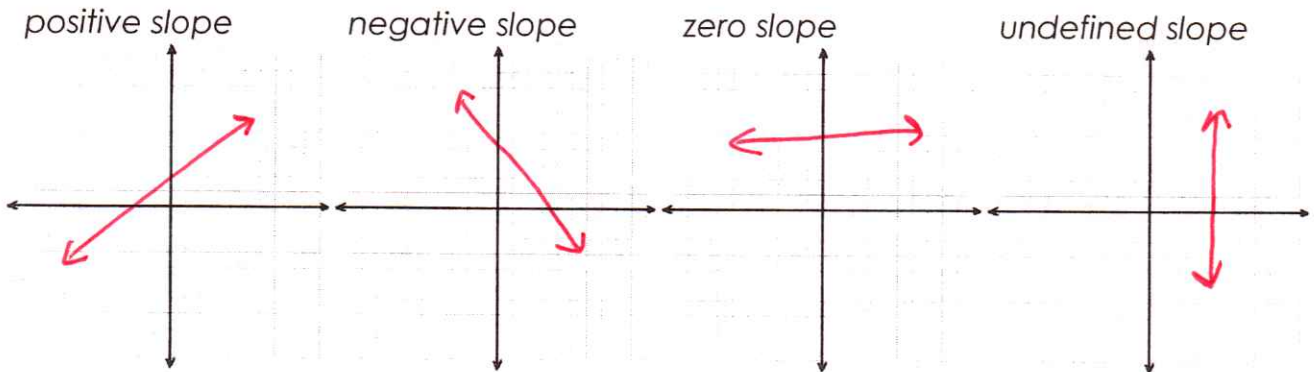


Sketch a graph that has a...



Find the slope between the following points:

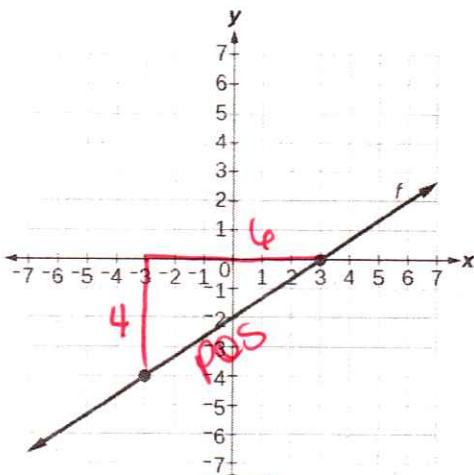
x_1, y_1 and x_2, y_2
(0, 4) and (-2, 6)

$$\frac{6-4}{-2-0} \rightarrow \frac{2}{-2} \rightarrow \boxed{-1}$$

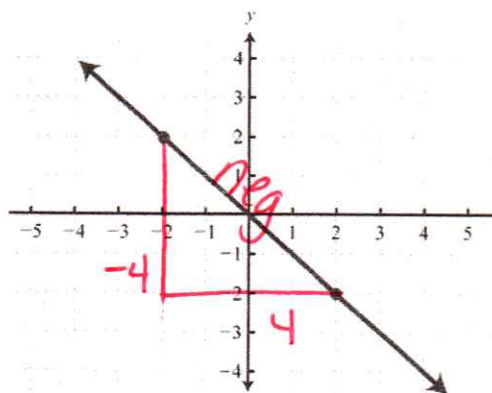
x_1, y_1 and x_2, y_2
(-4, 1) and (-2, 8)

$$\frac{8-1}{-2-(-4)} \rightarrow \frac{7}{2}$$

Find the slope from the linear functions represented below.



$$\frac{4}{6} \rightarrow \frac{2}{3}$$



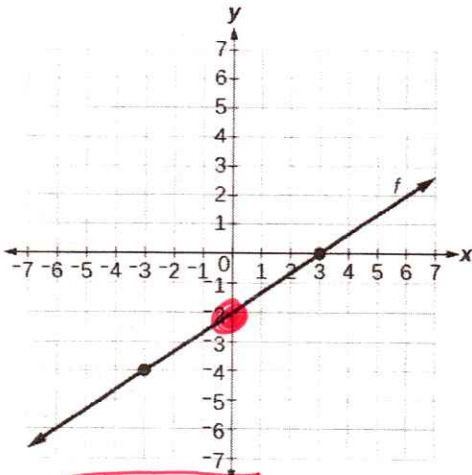
$$\frac{-4}{4} \rightarrow \boxed{-1}$$

X	Y
2	40
x_1, y_1	
4	50
x_2, y_2	
6	60
8	70
10	80

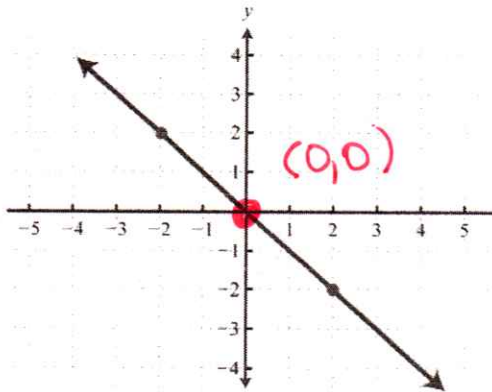
$$\frac{50-40}{4-2} \rightarrow \frac{10}{2} \rightarrow \boxed{5}$$

* Can be written $b = \#$
or $(0, \#)$

Find the y-intercepts from the functions represented below.



$b = -2$
or
 $(0, -2)$



X	Y
0	30
2	40
4	50
6	60
8	70
10	80

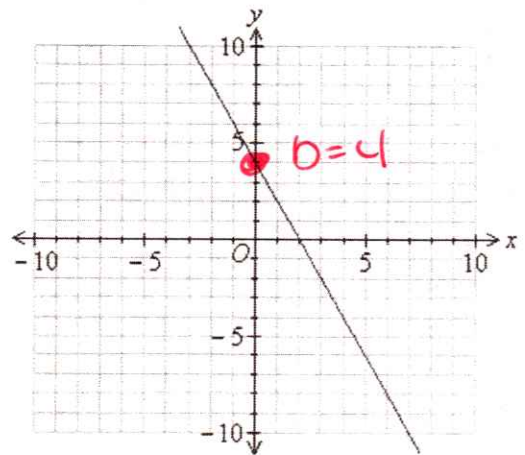
$b = 30$

x	0	1	2	3
y	27	25	23	21

$(0, 27)$

x	f(x)
-4	-1
-2	1
0	3
2	5
4	7

$b = 3$



Convert the following to slope-intercept form. $y = mx + b$

$$3x + 2y = 12$$

$$\begin{array}{r} -3x \qquad -3x \\ \hline \end{array}$$

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

$$y = -\frac{3}{2}x + 6$$

$$4x - 12y = -9$$

$$\begin{array}{r} -4x \qquad -4x \\ \hline \end{array}$$

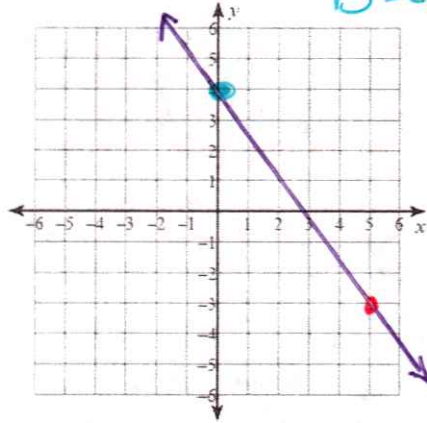
$$\frac{-12y}{-12} = \frac{-4x - 9}{-12 \quad -12}$$

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

Graph the following:

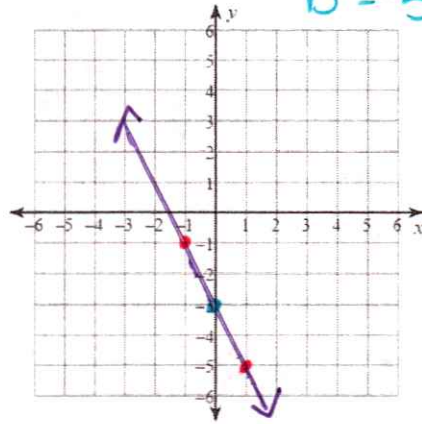
1) $y = -\frac{7}{5}x + 4$

$m = -\frac{7}{5}$
 $b = 4$



2) $y = -2x - 3$

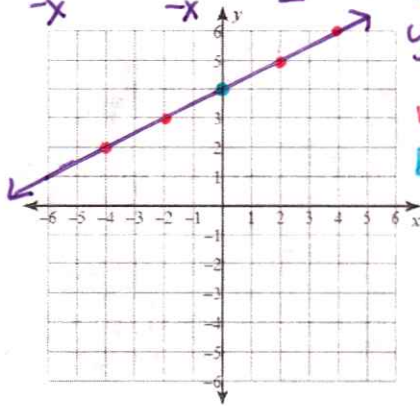
$m = -2 \rightarrow -\frac{2}{1}$
 $b = -3$



3) $x - 2y = -8$

$-\frac{2y}{2} = \frac{-x-8}{-2}$

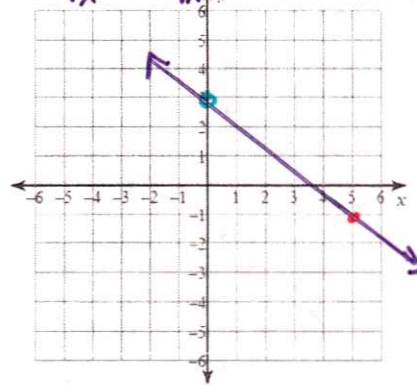
$y = \frac{1}{2}x + 4$
 $m = \frac{1}{2}$
 $b = 4$



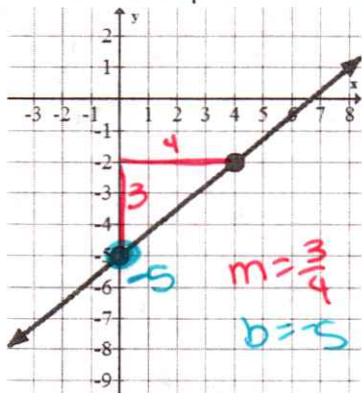
4) $4x + 5y = 15$

$\frac{5y}{5} = \frac{-4x+15}{5}$ $y = -\frac{4}{5}x + 3$

$m = -\frac{4}{5}$
 $b = 3$

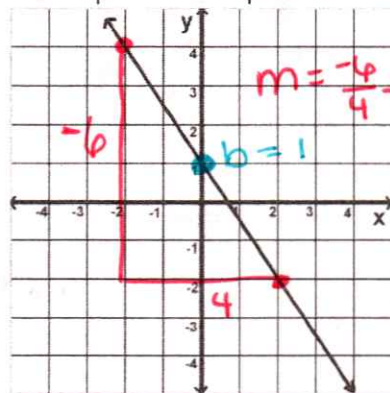


Write the equation in slope-intercept form represented by the graphs below.



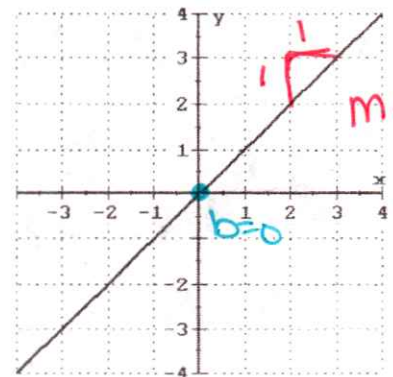
$m = \frac{3}{4}$
 $b = -5$

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



$m = -\frac{3}{2}$
 $b = 1$

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



$m = \frac{1}{1} = 1$
 $b = 0$

$y = 1x + 0$
 $y = x$