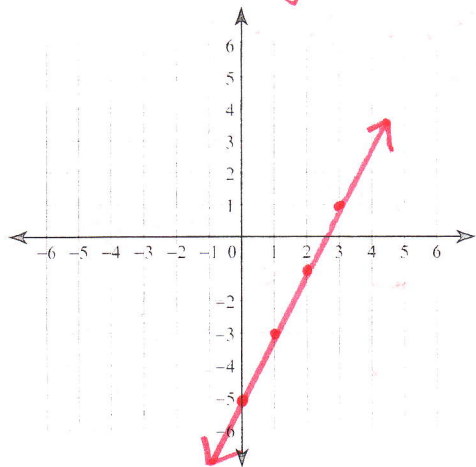


More Practice with Slope and Y-intercept

Sketch the graph of each line.

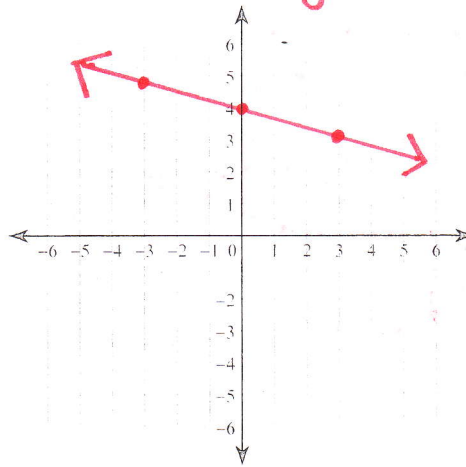
1) $2x - y = 5$

$y = 2x - 5$

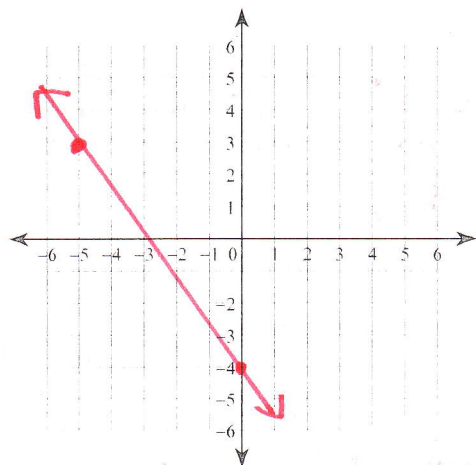


2) $x + 3y = 12$

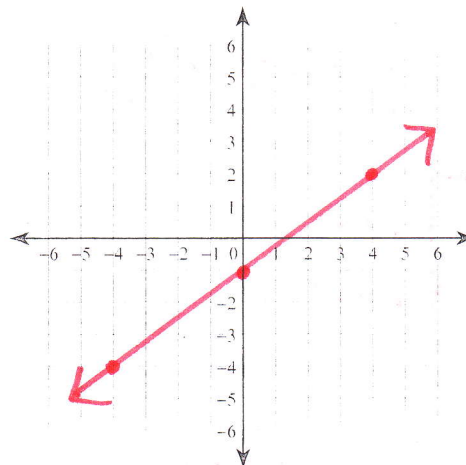
$y = -\frac{1}{3}x + 4$



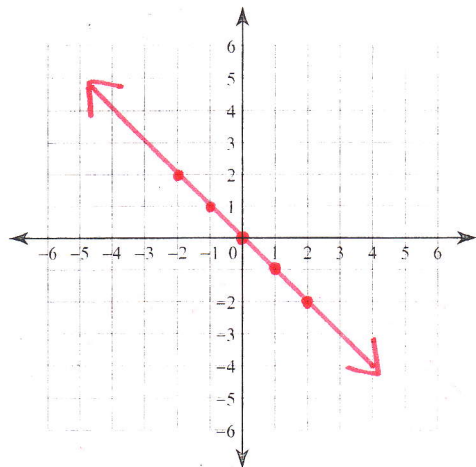
3) $y = -\frac{7}{5}x - 4$



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



5) $y = -x$



6) We have discussed two special lines, vertical and horizontal. Tell me everything you know about these two lines. Be thorough!

vertical lines \rightarrow no slope, no y-int,
could be the y-axis, equation is
 $x = \#$

horizontal lines \rightarrow $m = 0$, has a y-int,
could be the x-axis, equation
is $y = \#$

Find the slope of the line that passes through these two points:

7) (3, -4) and (7, 7)

$$m = \frac{7 - (-4)}{7 - 3} = \frac{11}{4}$$

$$\frac{11}{4}$$

8) (2, -8) and (2, -3)

$$m = \frac{-8 - (-3)}{2 - 2} = \frac{-5}{0}$$

no slope

9) (4, 9) and (7, 5)

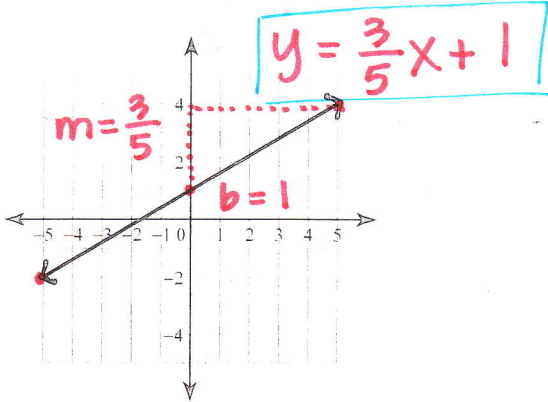
$$m = \frac{9 - 5}{4 - 7} = -\frac{4}{3}$$

10) (3, 6) and (5, 6)

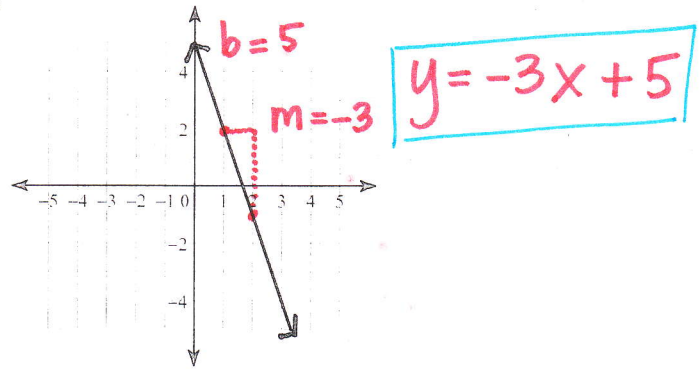
$$m = \frac{6 - 6}{5 - 3} = \frac{0}{2} = 0$$

Write the slope-intercept form of the equation of each line.

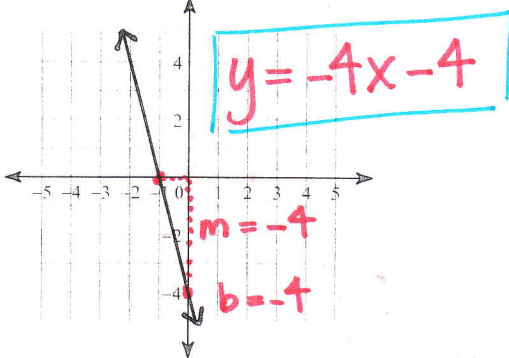
11)



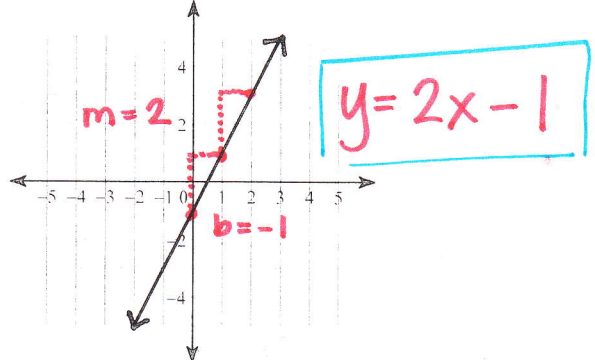
12)



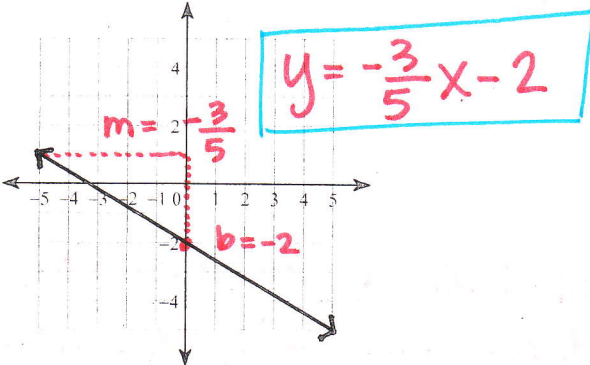
13)



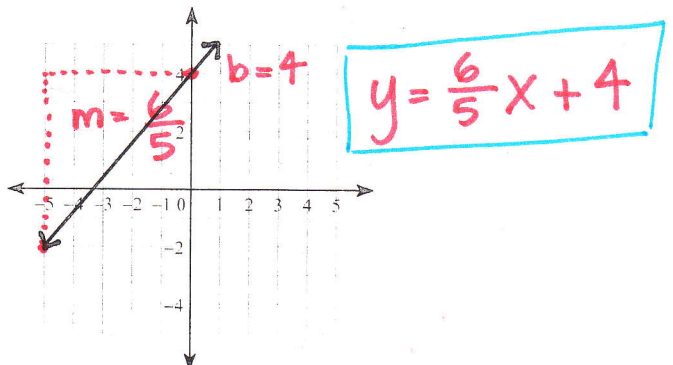
14)



15)



16)



17) $11x - 3y = 42$

$$\begin{array}{r} -11x \quad -11x \\ \hline -3y = \frac{-11x + 42}{-3} \end{array}$$

$$y = \frac{11}{3}x - 14$$

18) $13x - 3y = -21$

$$\begin{array}{r} -13x \quad -13x \\ \hline -3y = \frac{-13x - 21}{-3} \end{array}$$

$$y = \frac{13}{3}x + 7$$

19) $2x - 5y = 30$

$$\begin{array}{r} -2x \quad -2x \\ \hline -5y = \frac{-2x + 30}{-5} \end{array}$$

$$y = \frac{2}{5}x - 6$$

20) $x + 7y = -35$

$$\begin{array}{r} -x \quad -x \\ \hline 7y = \frac{-x - 35}{7} \end{array}$$

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