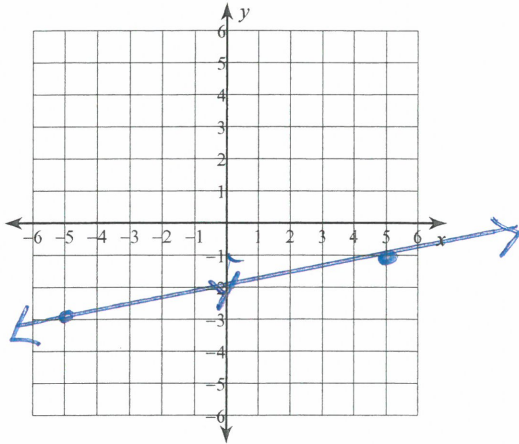


4-5 Slope-Intercept Rapid Graphing

Date _____ Period _____

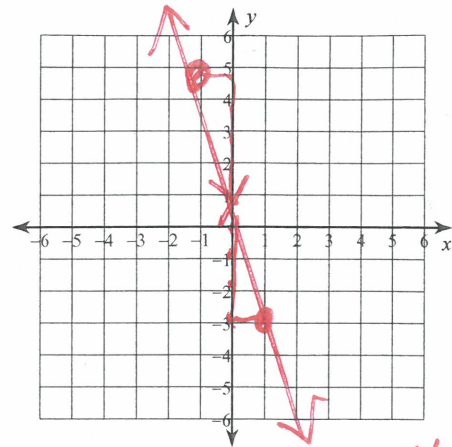
Sketch the graph of each line.

1) $y = \frac{1}{5}x - 2$



$m = \frac{1}{5}$ $B = -2$
 $\leftarrow +m \rightarrow$

2) $y = -4x + 1$

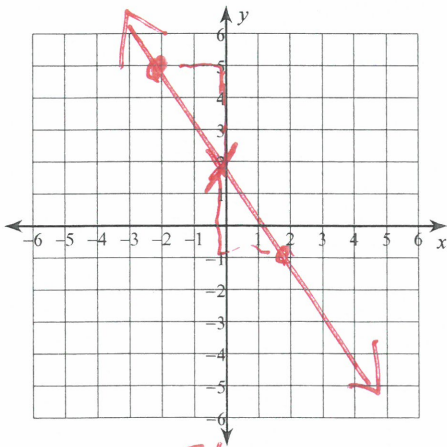


$m = -4/1$
 $b = 1$

S/I Graphing

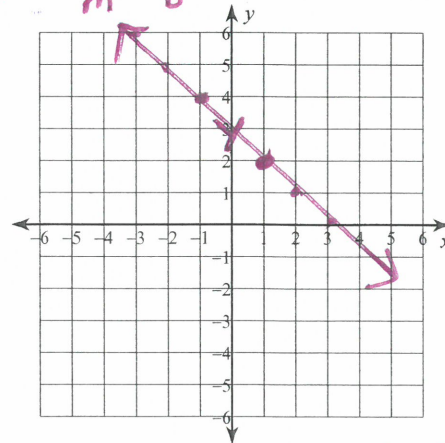
- ① put into $y = mx + b$
- ② on graph label yint with a "y"
- ③ CLEARLY SHOW 2 ADDITIONAL POINTS THAT FIT ON THE GRAPH
- ④ MUST STATE
 $m =$
 $b =$

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



$m = -3/2$
 $B = 2$

4) $y = -x + 3$



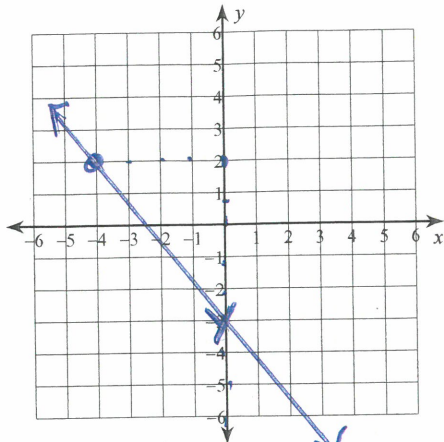
$m = -1$ or $-\frac{1}{1}$ $B = 3$

implied -1 $\Rightarrow y = -1 \cdot x + 3$

STANDARD FORM

Graph the linear function using slope and y-intercept. Identify the slope and y-intercept

5) $5x + 4y = -12$

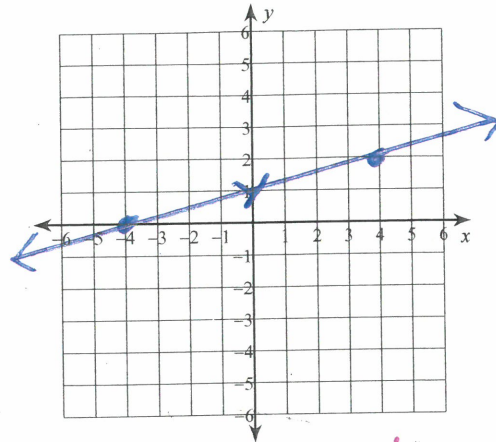


$$\begin{array}{r} 5x + 4y = -12 \\ -5x \quad -5x \\ \hline 4y = -5x - 12 \\ \frac{4y}{4} = \frac{-5x}{4} - \frac{12}{4} \\ y = -\frac{5}{4}x - 3 \end{array}$$

s/i

$m = -5/4$
 $b = -3$

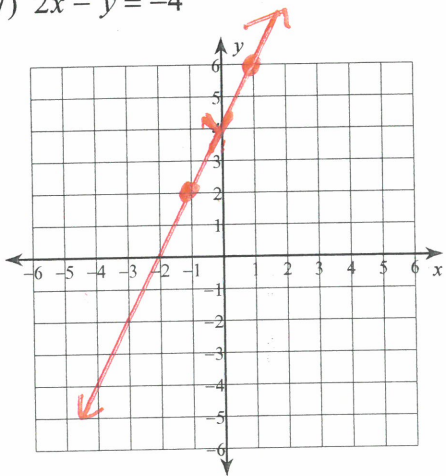
6) $x - 4y = -4$



$$\begin{array}{r} x - 4y = -4 \\ -x \quad -x \\ \hline -4y = -x - 4 \\ \frac{-4y}{-4} = \frac{-x}{-4} - \frac{4}{-4} \\ y = \frac{1}{4}x + 1 \end{array}$$

$m = 1/4$
 $b = 1$

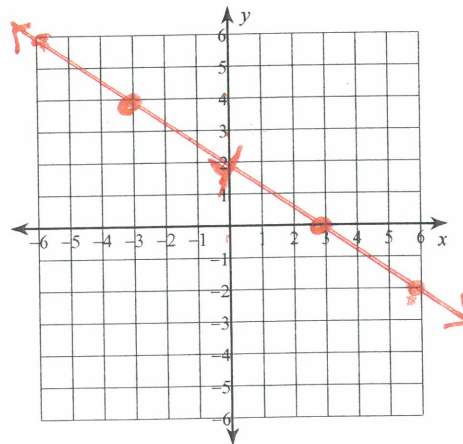
7) $2x - y = -4$



$$\begin{array}{r} 2x - y = -4 \\ -2x \quad -2x \\ \hline -y = -2x - 4 \\ \frac{-y}{-1} = \frac{-2x}{-1} - \frac{4}{-1} \\ y = 2x + 4 \end{array}$$

$m = 2/1$ $b = 4$

8) $2x + 3y = 6$



$$\begin{array}{r} 2x + 3y = 6 \\ -2x \quad -2x \\ \hline 3y = -2x + 6 \\ \frac{3y}{3} = \frac{-2x}{3} + \frac{6}{3} \\ y = -\frac{2}{3}x + 2 \end{array}$$

$m = -2/3$ $b = 2$