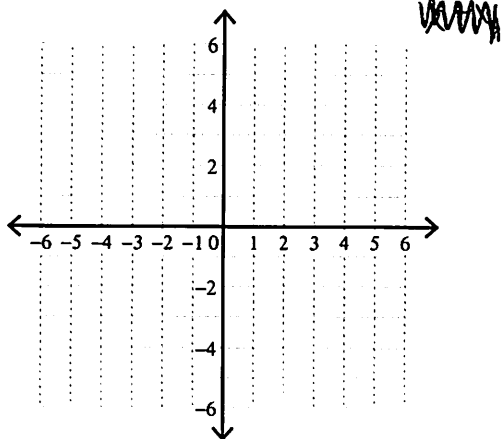


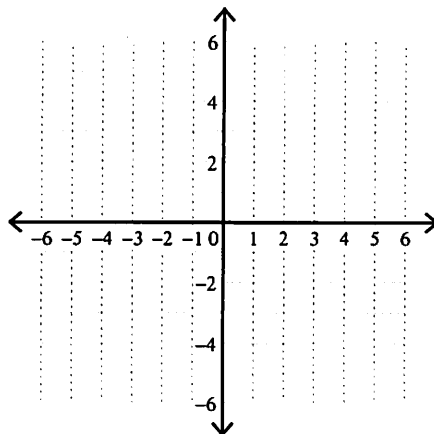
Graphing Lines

Sketch the graph of each line.

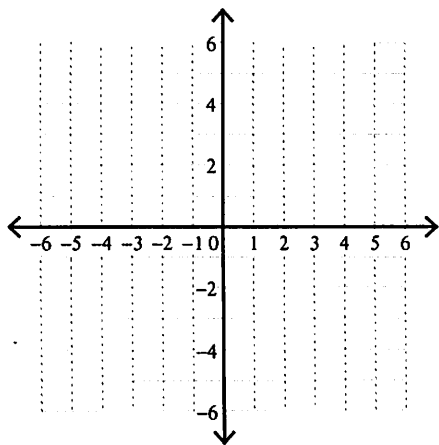
1) $x + y = -4$



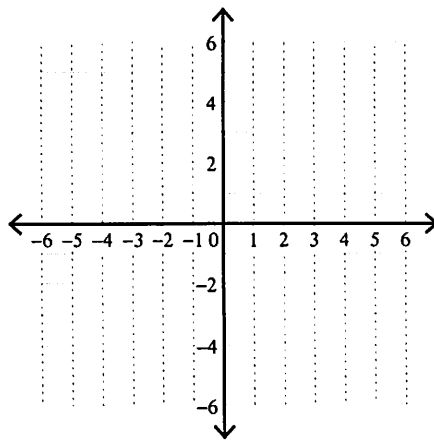
2) $x - y = -2$



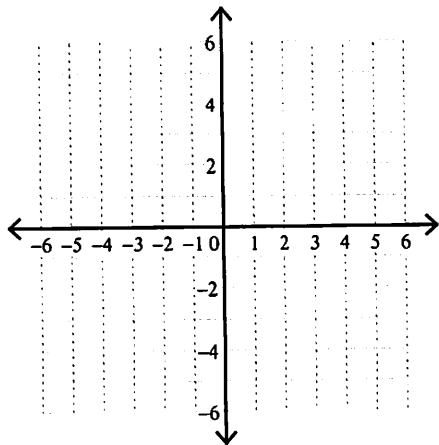
3) $2x + y = 1$



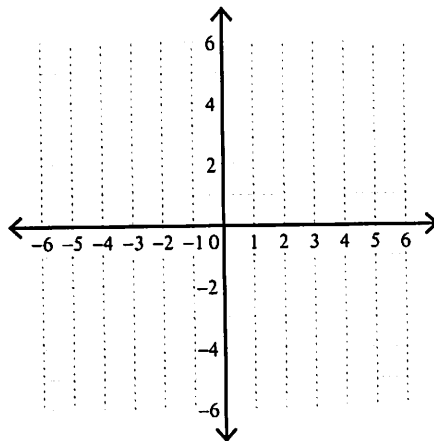
4) $2x + y = 4$



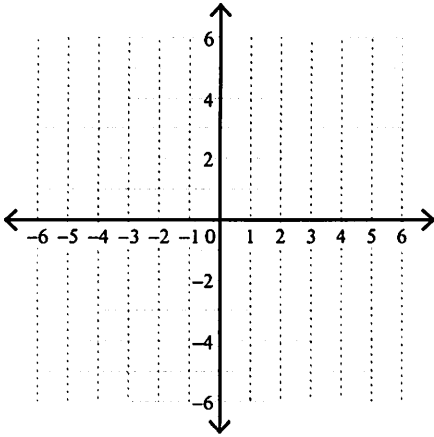
5) $x - 3y = 6$



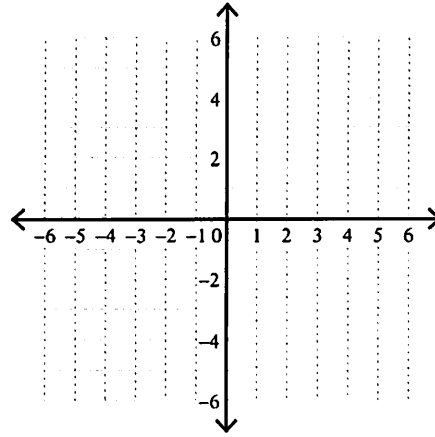
6) $x + 2y = 8$



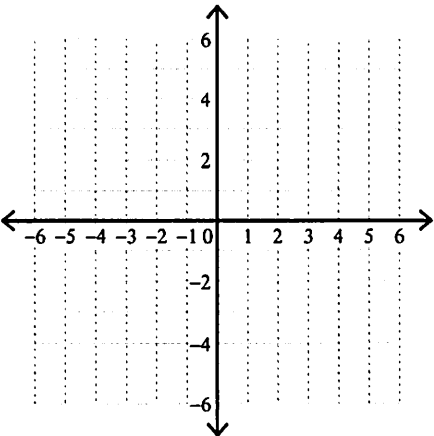
7) $y = -4$



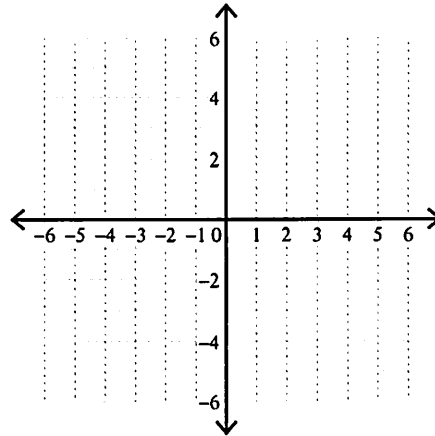
8) $x + 2y = 0$



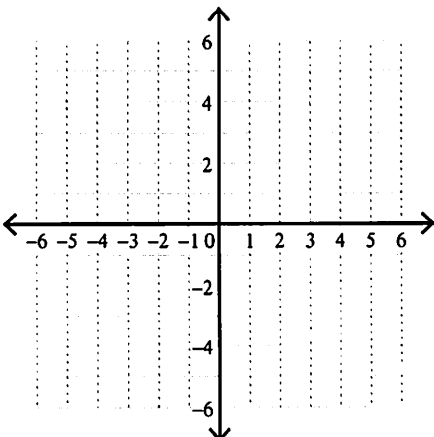
9) $x - 2y = -4$



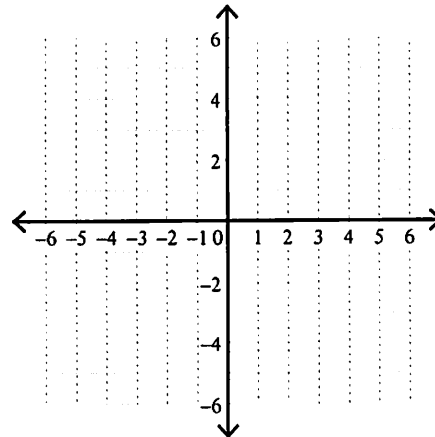
10) $2x + 3y = 6$



11) $x = 5$



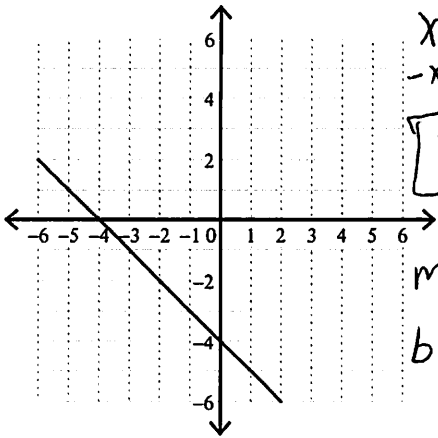
12) $5x - 2y = 10$



Graphing Lines

Sketch the graph of each line.

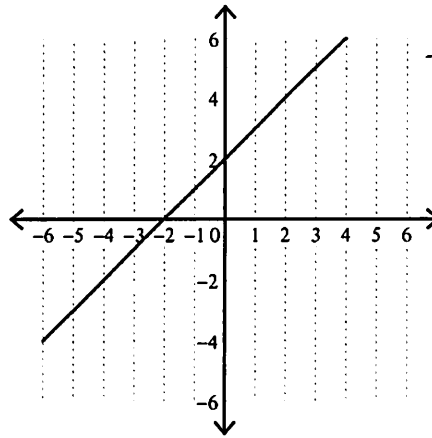
1) $x + y = -4$



$$\begin{aligned} x + y &= -4 \\ -x \quad -x & \\ \hline y &= -4 - x \end{aligned}$$

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

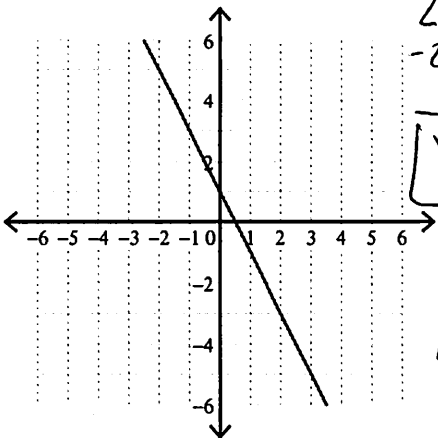
2) $x - y = -2$



$$\begin{aligned} x - y &= -2 \\ -x \quad -x & \\ \hline -1y &= -2 - x \\ \frac{-1y}{-1} &= \frac{-2}{-1} - \frac{x}{-1} \end{aligned}$$

$y = 2 + x$
 $m = 1 \quad b = 2$

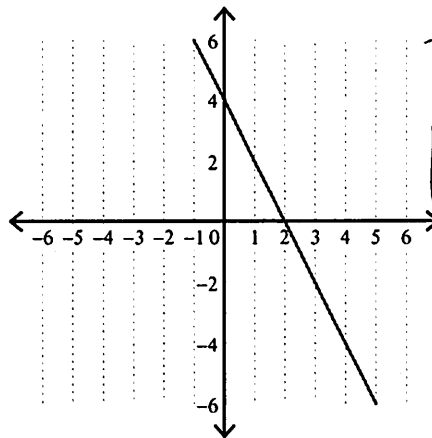
3) $2x + y = 1$



$$\begin{aligned} 2x + y &= 1 \\ -2x \quad -2x & \\ \hline y &= 1 - 2x \end{aligned}$$

$m = -2$
 $b = 1$

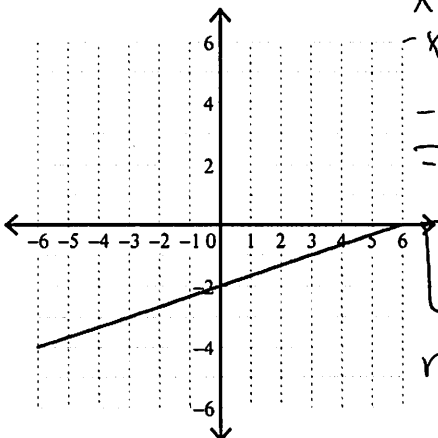
4) $2x + y = 4$



$$\begin{aligned} 2x + y &= 4 \\ -2x \quad -2x & \\ \hline y &= 4 - 2x \end{aligned}$$

$m = -2$
 $b = 4$

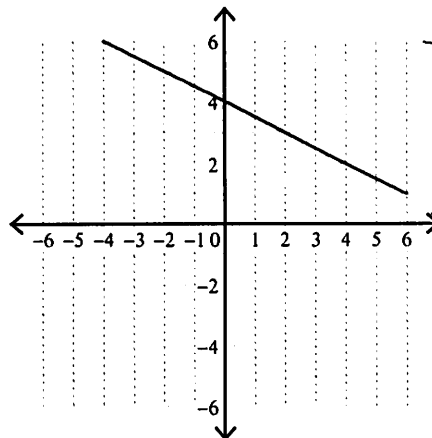
5) $x - 3y = 6$



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

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

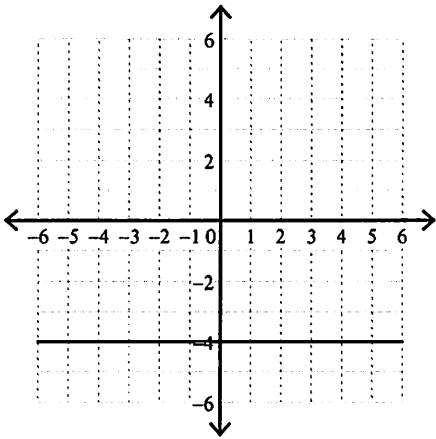
6) $x + 2y = 8$



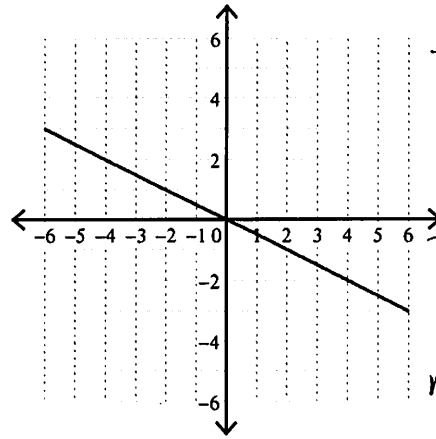
$$\begin{aligned} x + 2y &= 8 \\ -x \quad -x & \\ \hline 2y &= 8 - x \\ \frac{2y}{2} &= \frac{8}{2} - \frac{x}{2} \end{aligned}$$

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

7) $y = -4$



8) $x + 2y = 0$



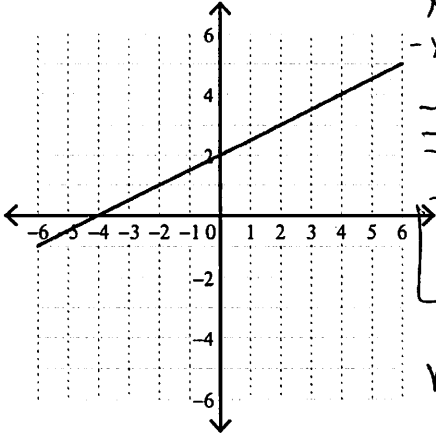
$$\begin{aligned} x + 2y &= 0 \\ -x &\quad -x \end{aligned}$$

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

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

$$m = -\frac{1}{2} \quad b = 0$$

9) $x - 2y = -4$



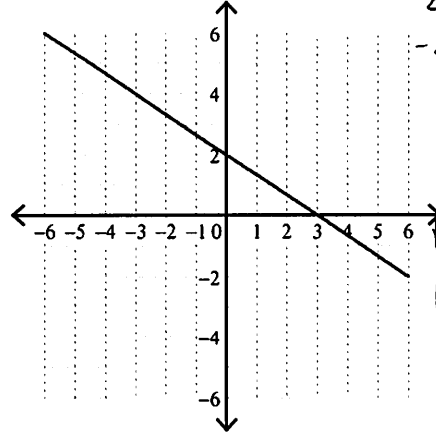
$$\begin{aligned} x - 2y &= -4 \\ -x &\quad -x \end{aligned}$$

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

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

$$m = \frac{1}{2} \quad b = 2$$

10) $2x + 3y = 6$



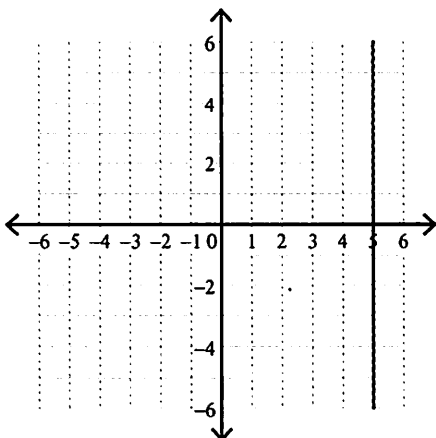
$$\begin{aligned} 2x + 3y &= 6 \\ -2x &\quad -2x \end{aligned}$$

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

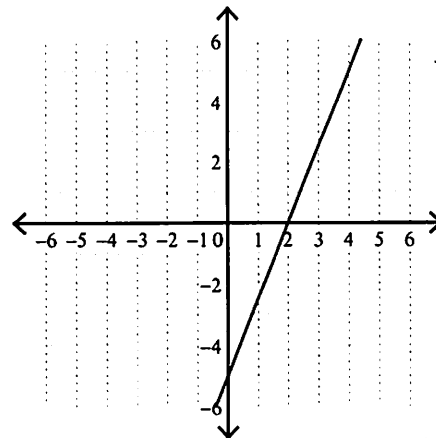
$$y = 2 - \frac{2}{3}x$$

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

11) $x = 5$



12) $5x - 2y = 10$



$$\begin{aligned} 5x - 2y &= 10 \\ -5x &\quad -5x \end{aligned}$$

$$\frac{-2y}{-2} = \frac{10 - 5x}{-2 \quad -2}$$

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

$$m = \frac{5}{2} \quad b = -5$$