

Graphs and Slope/Y Intercept

Find the slope and y intercept of the graph of the equation.

1. $y = 6x + 4$
 $m = 6$ $b = 4$

2. $y = 3x + 1$
 $m = 3$ $b = 1$

3. $y = 2x - 3$
 $m = 2$ $b = -3$

4. $y = -2$
 $m = 0$ $b = -2$

5. $y = x + 8$
 $m = 1$ $b = 8$

6. $y = -x - 5$
 $m = -1$ $b = -5$

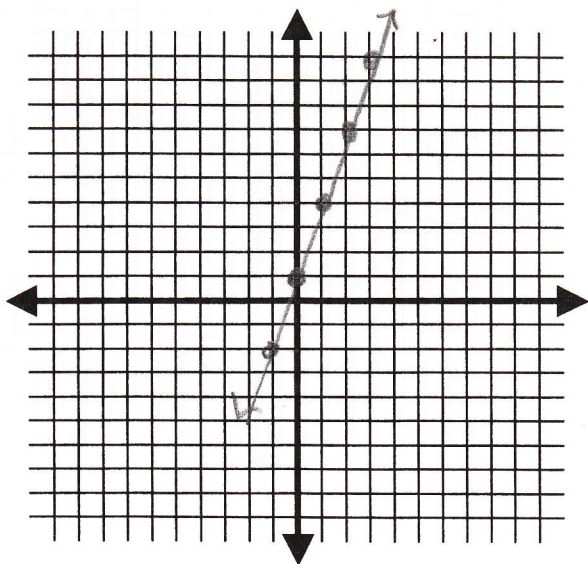
7. $x = 9$
 $m = \text{no}$ $b = \text{none}$

8. $y = 3x + 7$
 $m = 3$ $b = 7$

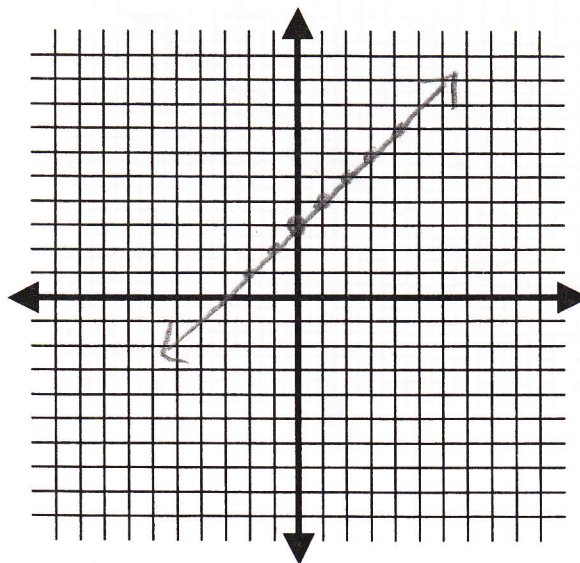
9. $y = -\frac{1}{2}x - 3$
 $m = -\frac{1}{2}$ $b = -3$

Graph the equation. (Remember to plot the y intercept first and use the slope to create additional points.)

10. $y = 3x + 1$
 $m = 3$
 $b = 1$



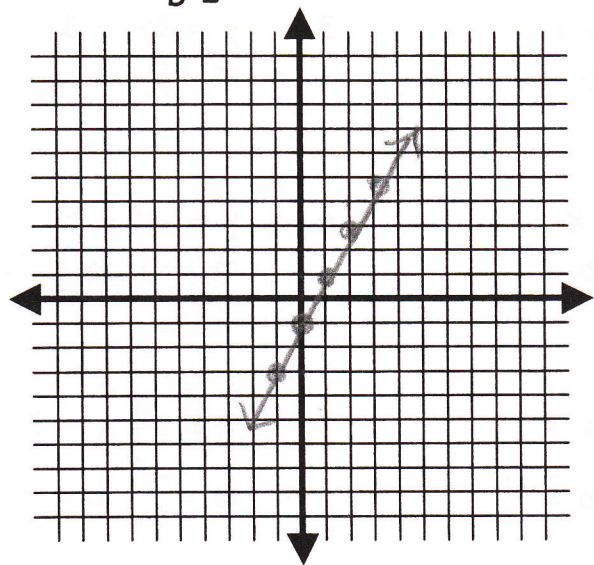
11. $y = x + 3$
 $m = 1$
 $b = 3$



12. $y = 2x - 1$

$m = 2$

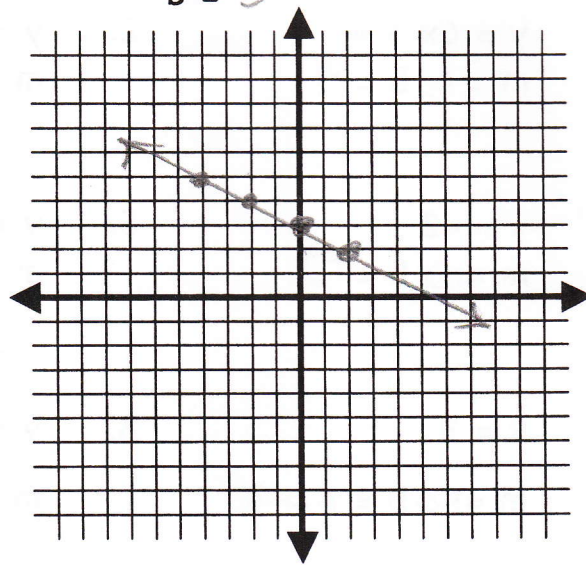
$b = -1$



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

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

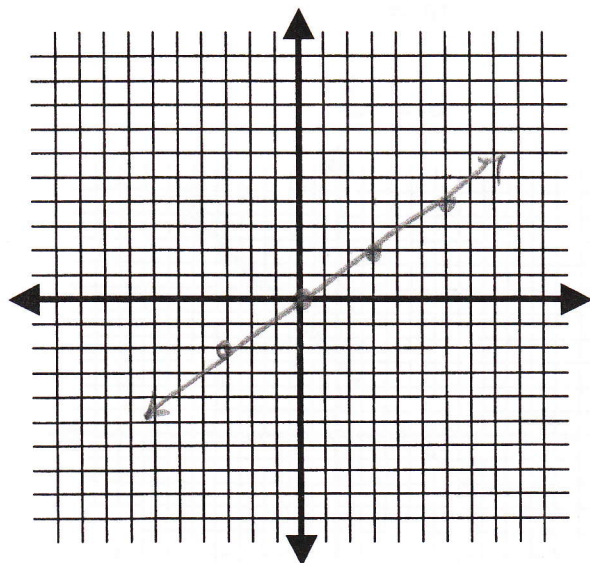
$b = 3$



14. $y = \frac{2}{3}x$

$m = \frac{2}{3}$

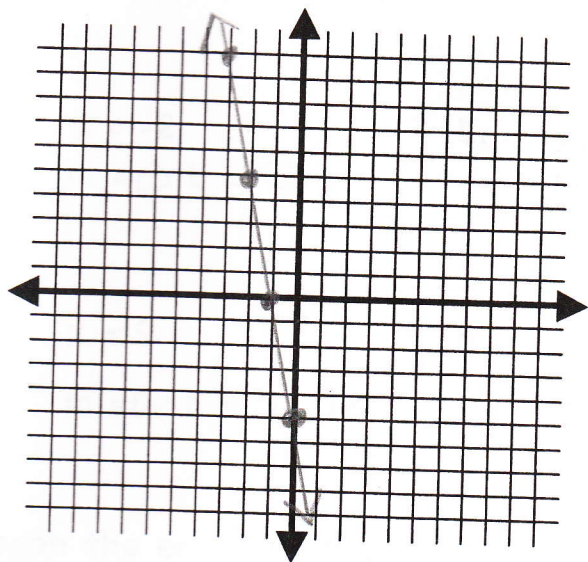
$b = 0$



Put the equations into slope-intercept form ($y = mx + b$), then graph using the y intercept and slope.

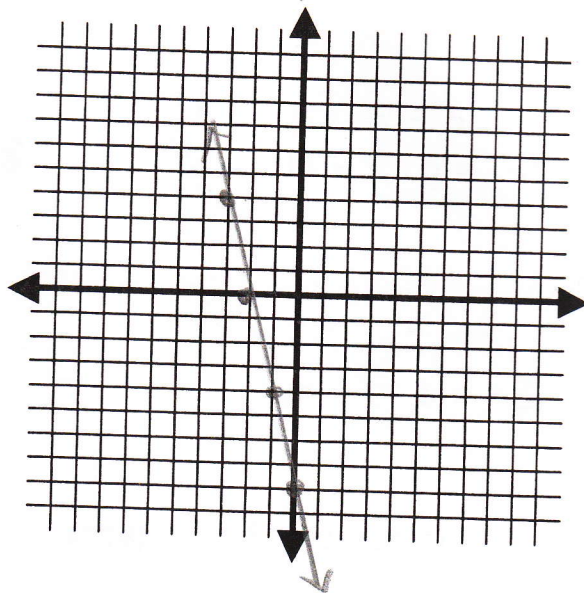
15. $5x + y = -5$

$$y = -5x - 5$$



16. $8x + 2y = -16$

$$2y = -8x - 16$$
$$y = -4x - 8$$



17. $6y + 2x = 12$

$$6y = -2x + 12$$

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

