

## 2-4 Skills Practice

### Writing Linear Equations

State the slope and  $y$ -intercept of the graph of each equation.

1.  $y = 7x - 5$

2.  $y = -\frac{3}{5}x + 3$

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

4.  $3x + 4y = 4$

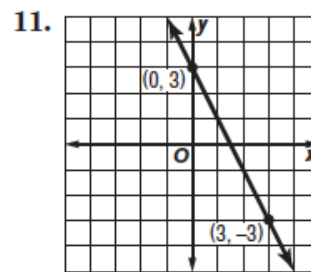
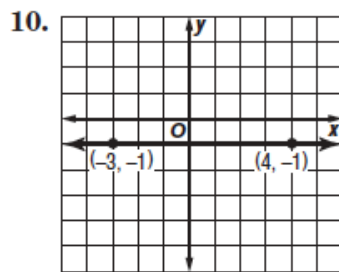
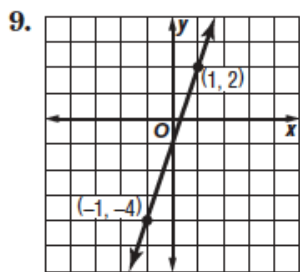
5.  $7y = 4x - 7$

6.  $3x - 2y + 6 = 0$

7.  $2x - y = 5$

8.  $2y = 6 - 5x$

Write an equation in slope-intercept form for each graph.



Write an equation in slope-intercept form for the line that satisfies each set of conditions.

12. slope 3, passes through  $(1, -3)$

13. slope  $-1$ , passes through  $(0, 0)$

14. slope  $-2$ , passes through  $(0, -5)$

15. slope 3, passes through  $(2, 0)$

16. passes through  $(-1, -2)$  and  $(-3, 1)$

17. passes through  $(-2, -4)$  and  $(1, 8)$

18.  $x$ -intercept 2,  $y$ -intercept  $-6$

19.  $x$ -intercept  $\frac{5}{2}$ ,  $y$ -intercept 5

20. passes through  $(3, -1)$ , perpendicular to the graph of  $y = -\frac{1}{3}x - 4$ .