## Skills Practice

Writing Linear Equations

Write an equation in slope-intercept form for the line described.

1. slope 3, y-intercept at -4

2. perpendicular to $y = \frac{1}{2}x - 1$, x-intercept at 4

3. parallel to $y = \frac{2}{3}x + 6$, passes through $(6, 7)$

4. parallel to $y = -\frac{1}{4}x - 2$, x-intercept at 4

5. perpendicular to $y = -4x + 1$, passes through $(-8, -1)$

6. slope $\frac{3}{5}$, x-intercept at -10

7. parallel to $y = 9x + 3$, y-intercept at -2

8. slope $\frac{5}{6}$, passes through $(12, 4)$

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

9.

10.

11.
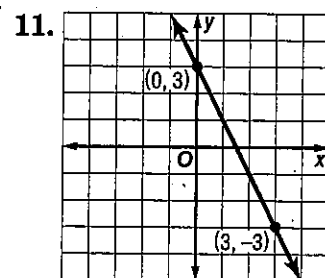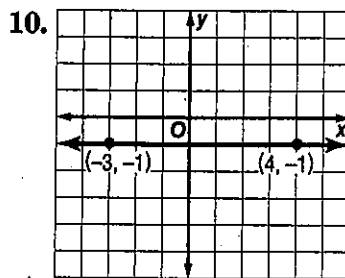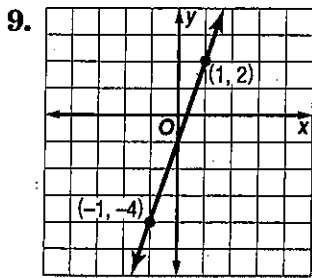
Write an equation in slope-intercept form for the line that satisfies each set of conditions.

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. passes through $(2, 0)$ and $(0, -6)$

19. passes through $(2.5, 0)$ and $(0, 5)$

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

Lesson 2-4