2-4 Skills Practice

Writing Linear Equations

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

1. $y = 7x - 5$

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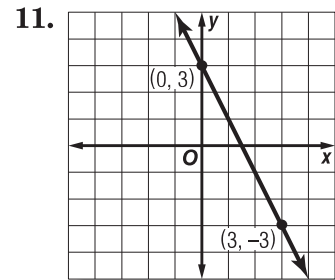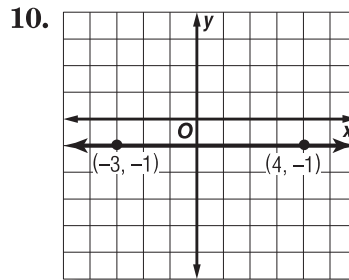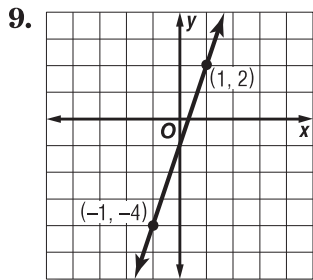
3. $y = \dfrac{2}{3}x$

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.

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. *x*-intercept 2, *y*-intercept -6

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

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

Lesson 2-4