Find the slope and *y*-intercept of the graph of the linear equation.

1. $y = 6x - 5$

2. $y = 20x + 15$

3. $y = -5x - 16$

4. $y - 1 = 3x + 8.4$

5. $y + 4.3 = 0.1x$
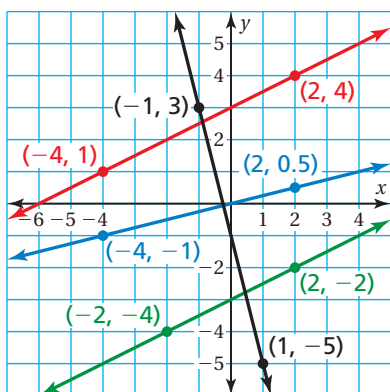
6. $-\dfrac{1}{2}x + 2y = 7$

Graph the linear equation.

7. $y = 2x + 4$

8. $y = -\dfrac{1}{2}x - 5$
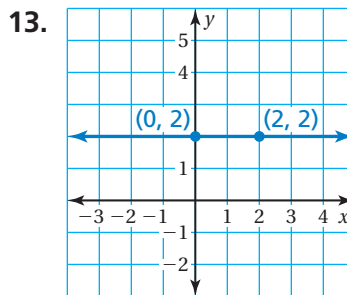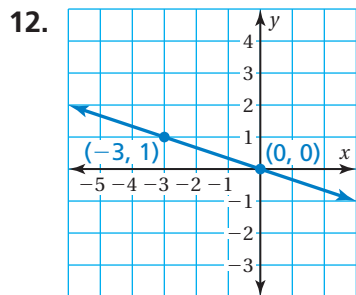
9. $-3x + 6y = 12$

10. Which lines are parallel? Which lines are perpendicular? Explain.

11. The points in the table lie on a line. How can you find the slope of the line from the table? What is the slope?

x	y
−1	−4
0	−1
1	2
2	5

Write an equation of the line in slope-intercept form.

12.

13.

Write in slope-intercept form an equation of the line that passes through the given points.

14. $(-1, 5), (3, -3)$

15. $(-4, 1), (4, 3)$

16. $(-2, 5), (-1, 1)$

17. BRAILLE Because of its size and detail, Braille takes longer to read than text. A person reading Braille reads at 25% the rate of a person reading text.

   a. Write and graph an equation that represents the average rate *y* of a Braille reader in terms of the average rate *x* of a text reader.

   b. Interpret the solution (180, 45).

   c. What happens to *y* as *x* increases? Explain.