

Lesson 2-2

(pages 63–67)

State whether each equation or function is linear. Write *yes* or *no*. If no, explain.

1. $\frac{x}{2} - y = 7$

2. $\sqrt{x} = y + 5$

3. $g(x) = \frac{2}{x-3}$

4. $x = 3 + y$

5. $f(x) = 7$

6. $\frac{3}{x} - \frac{1}{4} = \frac{4}{3}$

Write each equation in standard form. Identify A , B , and C .

7. $x + 7 = y$

8. $x = -3y$

9. $5x = 7y + 3$

10. $y = \frac{2}{3}x + 8$

11. $-0.4x = 10$

12. $0.75y = -6$

Find the x -intercept and the y -intercept of the graph of each equation. Then graph the equation.

13. $2x + y = 6$

14. $3x - 2y = -12$

15. $y = -x$

16. $x = 3y$

17. $\frac{3}{4}y - x = 1$

18. $y = -3$