

4.3–4.5 Quiz



Solve the system of linear equations by elimination. Check your solution. (Section 4.3)

1. $x + 2y = 4$
 $-x - y = 2$

2. $2x - y = 1$
 $x + 3y - 4 = 0$

3. $3x = -4y + 10$
 $4x + 3y = 11$

Solve the system of linear equations. Check your solution. (Section 4.4)

4. $3x - 2y = 16$
 $6x - 4y = 32$

5. $4y = x - 8$
 $-\frac{1}{4}x + y = -1$

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

Use a graph to solve the equation. Check your solution. (Section 4.4)

7. $4x - 1 = 2x$

8. $-\frac{1}{2}x + 1 = -x + 1$

9. $1 - 3x = -3x + 2$

Graph the system of linear inequalities. (Section 4.5)

10. $y \leq \frac{1}{2}x + 1$

11. $2x + y \geq -3$

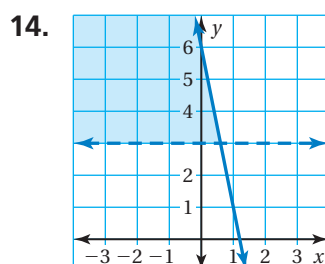
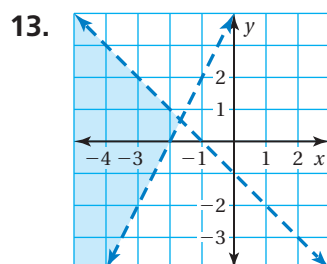
12. $-5x + y + 1 > 0$

$y > -x - 1$

$2x < -y - 4$

$\frac{3}{4}x + y \geq -2$

Write a system of linear inequalities represented by the graph. (Section 4.5)



15. **RENTALS** A business rents bicycles and in-line skates. Bicycle rentals cost \$25 per day and in-line skate rentals cost \$20 per day. The business has 20 rentals today and makes \$455. (Section 4.3)

- Write a system of linear equations that represents this situation.
- How many bicycle rentals and in-line skate rentals did the business have today?

16. **JOBS** You earn \$11 per hour delivering pizzas. You also work part-time at a convenience store where you earn \$9 per hour. You want to earn at least \$150 per week, but you can only work 25 hours per week. How many hours can you work at each job? (Section 4.5)

