

Practice 7-1

Solving Systems by Graphing

Solve by graphing. Write *no solution* or *infinitely many solutions* where appropriate.

1. $y = 3x - 1$

2. $y = x - 1$

3. $y = \frac{3}{4}x + 2$

4. $y = 4x + 7$

$y = -2x + 4$

$y = -x + 7$

$\frac{3}{4}x - y = 4$

$y = -3x$

5. $y = x - 3$

6. $y = -3x - 4$

7. $y = -x - 3$

8. $y = -x + 2$

$y = \frac{1}{7}x + 3$

$3x + y = -4$

$y = -2x - 8$

$3x + 3y = 12$

Practice 7-5

Linear Inequalities

Graph each linear inequality.

1. $y \geq -4$

2. $x + y < -2$

3. $y < x$

4. $x > 2$

5. $4x + y > -6$

6. $-3x + y \leq -3$

7. $x + 4y \leq 8$

8. $y > 2x + 6$

9. $y > -x + 2$

Practice 7-6

Solve each system by graphing. Show your work.

1. $y < 6$

2. $x < 7$

$y > 3$

$y > 2$

4. $x + y > -2$

5. $x + y < 2$

$-x + y < 1$

$x + y > 5$

7. $y < 2x - 3$

8. $-x + 3y < 12$

$-2x + y > 5$

$y \geq -x + 4$

10. $y \geq \frac{3}{4}x + 1$

11. $6x + 4y > 12$

$y \geq -\frac{2}{3}x - 1$

$-3x + 4y > 12$