

# CHAPTER 7 WARM UPS

## Check Skills You'll Need

## Lesson 7-1

Solve each equation.

1.  $2n + 3 = 5n - 2$     2.  $8 - 4z = 2z - 13$     3.  $8q - 12 = 3q + 23$

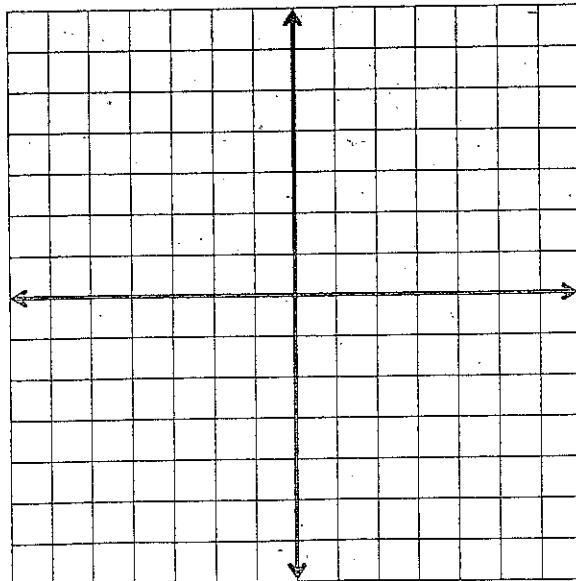
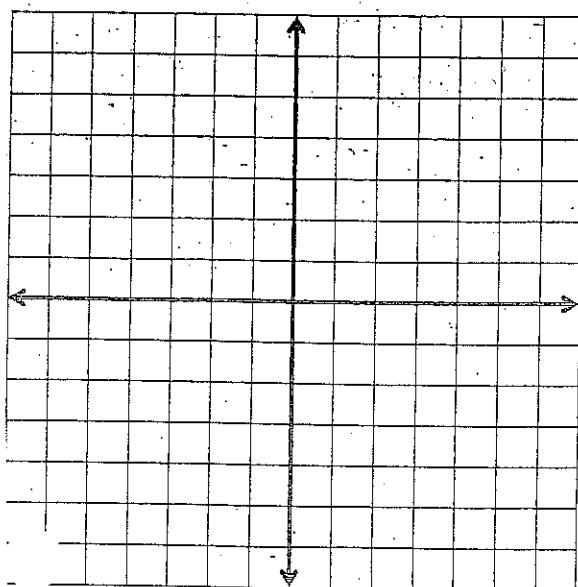
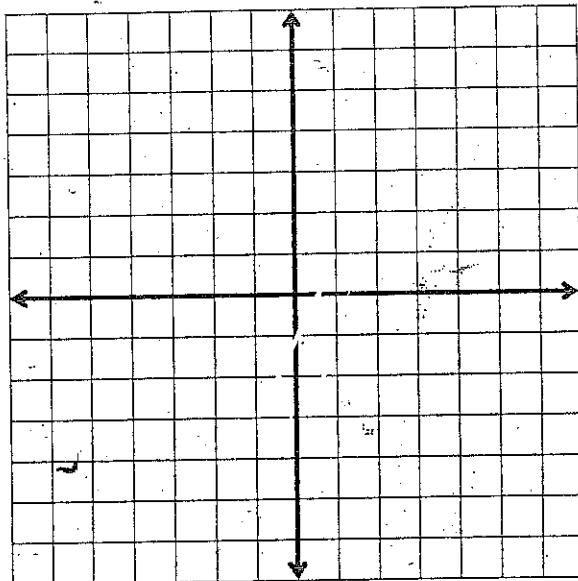
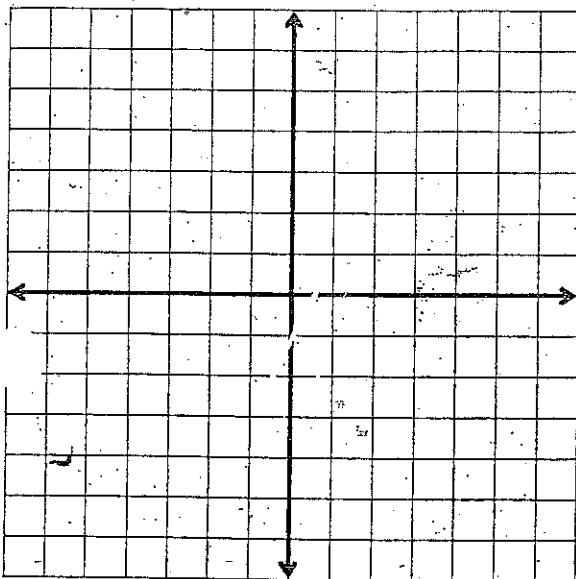
Graph each pair of equations on the same coordinate plane.

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

6.  $y = 2x - 5$   
 $6x - 3y = 15$

5.  $y = 6x + 1$   
 $y = 6x - 4$

7.  $y = x + 5$   
 $y = -3x + 5$



**Lesson Quiz****Lesson 7-1**

Solve by graphing.

1.  $y = -x - 2$

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

2.  $y = -x + 3$

$$y = 2x - 6$$

3.  $y = 3x + 2$

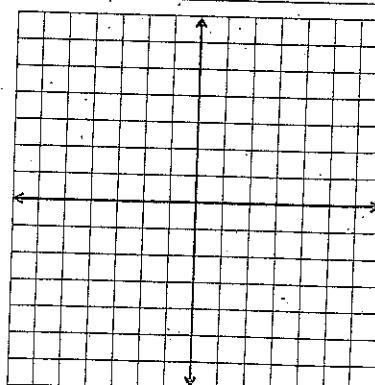
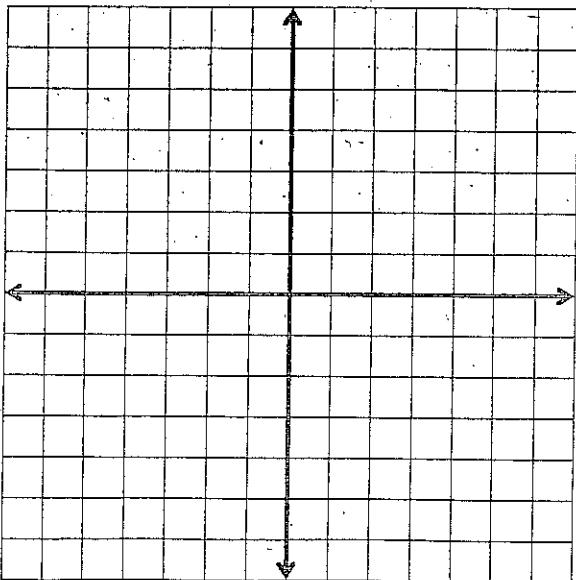
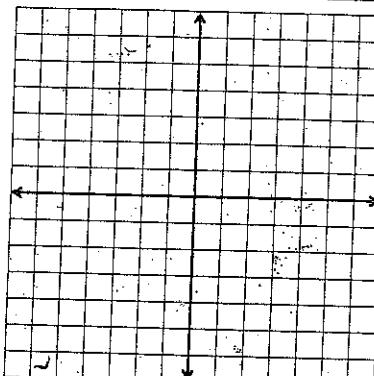
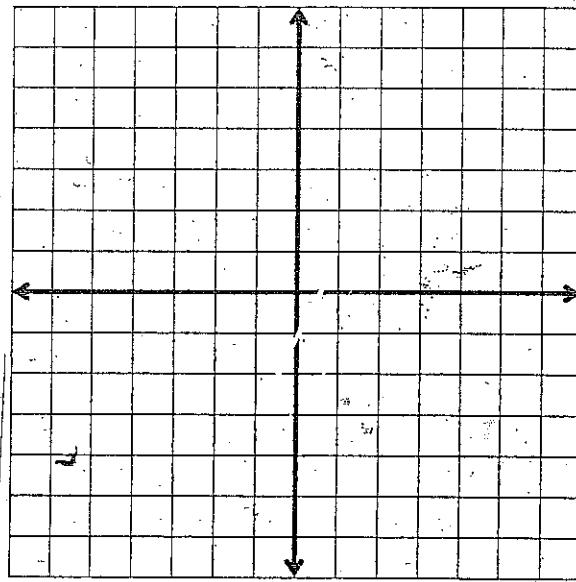
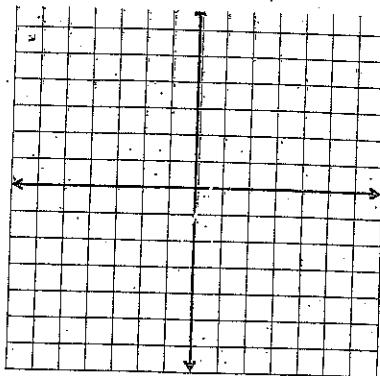
$$6x - 2y = -4$$

4.  $2x - 3y = 9$

$$y = x - 5$$

5.  $-2x + 4y = 12$

$$-\frac{1}{2}x + y = -3$$



## Lesson 7-2

### Lesson Quiz

Solve each system using substitution.

$$\begin{aligned} 1. \quad & 5x + 4y = 5 \\ & y = 5x \end{aligned}$$

$$\begin{aligned} 2. \quad & 3x + y = 4 \\ & 2x - y = 6 \end{aligned}$$

$$\begin{aligned} 3. \quad & 6m - 2n = 7 \\ & 3m + n = 4 \end{aligned}$$

### Check Skills You'll Need

## Lesson 7-2

Solve each equation.

$$1. \quad m - 6 = 4m + 8$$

$$2. \quad 4n = 9 - 2n$$

$$3. \quad \frac{1}{3}t + 5 = 10$$

For each system, is the ordered pair a solution of both equations?

$$4. \quad (5, 1) \quad \begin{aligned} y &= -x + 4 \\ y &= x - 6 \end{aligned}$$

$$5. \quad (2, 2.4) \quad \begin{aligned} 4x + 5y &= 20 \\ 2x + 6y &= 10 \end{aligned}$$

## Check Skills You'll Need

## Lesson 7-3

Solve each system using substitution.

**1** 1.  $y = 4x - 3$   
 $y = 2x + 13$

**2** 2.  $y + 5x = 4$   
 $y = 7x - 20$

**3** 3.  $y = -2x + 2$   
 $3x - 17 = 2y$

## Lesson Quiz

## Lesson 7-3

Solve using elimination.

$$1. \begin{aligned} 3x - 4y &= 7 \\ 2x + 4y &= 8 \end{aligned}$$

$$2. \begin{aligned} 5m + 3n &= 22 \\ 5m + 6n &= 34 \end{aligned}$$

$$3. \begin{aligned} -6x + 5y &= 4 \\ 3x + 4y &= 11 \end{aligned}$$

$$4. \begin{aligned} 7p + 5q &= 2 \\ 8p - 9q &= 17 \end{aligned}$$