

**Systems - Special Cases**

Date \_\_\_\_\_ Period \_\_\_\_\_

**Solve each system by elimination.**

1) 
$$\begin{aligned} 2x - 2y &= 12 \\ -2x + 2y &= -12 \end{aligned}$$

2) 
$$\begin{aligned} 2x + 6y &= 26 \\ 2x + 8y &= 30 \end{aligned}$$

3) 
$$\begin{aligned} -3x + 6y &= 1 \\ 6x - 12y &= -12 \end{aligned}$$

4) 
$$\begin{aligned} -15x + y &= 0 \\ -5x + 10y &= 0 \end{aligned}$$

5) 
$$\begin{aligned} -4x + 4y &= -6 \\ -12x + 12y &= -12 \end{aligned}$$

6) 
$$\begin{aligned} 7x - 4y &= 6 \\ 21x - 12y &= 18 \end{aligned}$$

7) 
$$\begin{aligned} -4x - 12y &= -8 \\ -2x - 6y &= -4 \end{aligned}$$

8) 
$$\begin{aligned} -10x + 4y &= 14 \\ -5x + 3y &= -2 \end{aligned}$$

## Systems - Special Cases

Solve each system by elimination.

$$\begin{aligned} 1) \quad & 2x - 2y = 12 \\ & -2x + 2y = -12 \end{aligned}$$

Infinite number of solutions

$$\begin{aligned} 3) \quad & -3x + 6y = 1 \\ & 6x - 12y = -12 \end{aligned}$$

No solution

$$\begin{aligned} 5) \quad & -4x + 4y = -6 \\ & -12x + 12y = -12 \end{aligned}$$

No solution

$$\begin{aligned} 7) \quad & -4x - 12y = -8 \\ & -2x - 6y = -4 \end{aligned}$$

Infinite number of solutions

$$\begin{aligned} 2) \quad & 2x + 6y = 26 \\ & 2x + 8y = 30 \end{aligned}$$

(7, 2)

$$\begin{aligned} 4) \quad & -15x + y = 0 \\ & -5x + 10y = 0 \end{aligned}$$

(0, 0)

$$\begin{aligned} 6) \quad & 7x - 4y = 6 \\ & 21x - 12y = 18 \end{aligned}$$

Infinite number of solutions

$$\begin{aligned} 8) \quad & -10x + 4y = 14 \\ & -5x + 3y = -2 \end{aligned}$$

(-5, -9)