

Elimination Day 2

Date _____

Solve each system by elimination.

$$\begin{aligned} 1) \quad & 9x - 16y = -27 \\ & 10x - 8y = -30 \end{aligned}$$

$$\begin{aligned} 2) \quad & -12x - 9y = -15 \\ & -3x + 3y = -30 \end{aligned}$$

$$\begin{aligned} 3) \quad & 8x - 5y = 16 \\ & -3x + 4y = -6 \end{aligned}$$

$$\begin{aligned} 4) \quad & -12x - 5y = -6 \\ & 6x - 2y = 30 \end{aligned}$$

$$\begin{aligned} 5) \quad & 10x + 9y = 13 \\ & -5x + 2y = -26 \end{aligned}$$

$$\begin{aligned} 6) \quad & 5x - 5y = -29 \\ & -5x + 5y = 25 \end{aligned}$$

$$\begin{aligned} 7) \quad & -5x - 2y = -11 \\ & 10x + 4y = 10 \end{aligned}$$

$$\begin{aligned} 8) \quad & 7x + 5y = 3 \\ & 7x + 6y = 12 \end{aligned}$$

$$\begin{aligned} 9) \quad & 56x + 21y = 0 \\ & -48x - 18y = 0 \end{aligned}$$

$$\begin{aligned} 10) \quad & -7x + 4y = 17 \\ & -5x + 4y = 3 \end{aligned}$$

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Solve each system by elimination.

1) $9x - 16y = -27$

$10x - 8y = -30$

$(-3, 0)$

2) $-12x - 9y = -15$

$-3x + 3y = -30$

$(5, -5)$

3) $8x - 5y = 16$

$-3x + 4y = -6$

$(2, 0)$

4) $-12x - 5y = -6$

$6x - 2y = 30$

$(3, -6)$

5) $10x + 9y = 13$

$-5x + 2y = -26$

$(4, -3)$

6) $5x - 5y = -29$

$-5x + 5y = 25$

No solution

7) $-5x - 2y = -11$

$10x + 4y = 10$

No solution

8) $7x + 5y = 3$

$7x + 6y = 12$

$(-6, 9)$

9) $56x + 21y = 0$

$-48x - 18y = 0$

Infinite number of solutions

10) $-7x + 4y = 17$

$-5x + 4y = 3$

$(-7, -8)$