

Solve each system by elimination using multiplication.

$$\begin{array}{l} 1) \quad -10x - 2y = 0 \\ \quad \quad 5x - y = -10 \end{array}$$

$$\begin{array}{l} 2) \quad 2x - y = 10 \\ \quad \quad x - 7y = 5 \end{array}$$

$$\begin{array}{l} 3) \quad -10x + 6y = -14 \\ \quad \quad 5x - 4y = 1 \end{array}$$

$$\begin{array}{l} 4) \quad 2x - y = 12 \\ \quad \quad 5x + 6y = -4 \end{array}$$

$$\begin{array}{l} 5) \quad -2x - 8y = 2 \\ \quad \quad 4x + 4y = -4 \end{array}$$

$$\begin{array}{l} 6) \quad 3x - 9y = -3 \\ \quad \quad -2x + 3y = -1 \end{array}$$

$$\begin{array}{l} 7) \quad -6x + 3y = -6 \\ \quad \quad -x + 6y = -1 \end{array}$$

$$\begin{array}{l} 8) \quad -5x + y = -8 \\ \quad \quad -x - 2y = -6 \end{array}$$

$$\begin{array}{l} 9) \quad 2x + 6y = -12 \\ \quad \quad -x + 3y = -12 \end{array}$$

$$\begin{array}{l} 10) \quad -9x + 2y = 14 \\ \quad \quad -3x + 3y = 0 \end{array}$$

$$\begin{aligned} 11) \quad & -5x - 6y = -7 \\ & -10x - 5y = 0 \end{aligned}$$

$$\begin{aligned} 12) \quad & 3x - 6y = 18 \\ & 4x - y = 10 \end{aligned}$$

$$\begin{aligned} 13) \quad & x + 4y = -12 \\ & 4x + 8y = -16 \end{aligned}$$

$$\begin{aligned} 14) \quad & x - 6y = 13 \\ & 6x + 12y = -18 \end{aligned}$$

$$\begin{aligned} 15) \quad & x - 3y = -15 \\ & -4x - 6y = -12 \end{aligned}$$

$$\begin{aligned} 16) \quad & -2x + 4y = 14 \\ & -x + y = 1 \end{aligned}$$

$$\begin{aligned} 17) \quad & 6x - 4y = 2 \\ & -5x + 2y = 1 \end{aligned}$$

$$\begin{aligned} 18) \quad & -4x + 3y = -16 \\ & 8x - y = 12 \end{aligned}$$

$$\begin{aligned} 19) \quad & 3x + 10y = -3 \\ & -4x + 5y = 4 \end{aligned}$$

$$\begin{aligned} 20) \quad & -4x - 3y = -6 \\ & -x + 9y = 18 \end{aligned}$$

Answers to

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|----------------|----------------|---------------|---------------|
| 1) $(-1, 5)$ | 2) $(5, 0)$ | 3) $(5, 6)$ | 4) $(4, -4)$ |
| 5) $(-1, 0)$ | 6) $(2, 1)$ | 7) $(1, 0)$ | 8) $(2, 2)$ |
| 9) $(3, -3)$ | 10) $(-2, -2)$ | 11) $(-1, 2)$ | 12) $(2, -2)$ |
| 13) $(4, -4)$ | 14) $(1, -2)$ | 15) $(-3, 4)$ | 16) $(5, 6)$ |
| 17) $(-1, -2)$ | 18) $(1, -4)$ | 19) $(-1, 0)$ | 20) $(0, 2)$ |