

Solve each system by elimination.

$$\begin{aligned} 1) \quad -x + \frac{4}{5}y &= 3 \\ 0 &= -14y - 14x - 42 \end{aligned}$$

$$\begin{aligned} 2) \quad 0 &= 32x - 24y - 46 \\ &-12x + 9y + 24 = 0 \end{aligned}$$

$$\begin{aligned} 3) \quad -19 + 5x &= -4y \\ -10 + 8x + 3y &= 0 \end{aligned}$$

$$\begin{aligned} 4) \quad 0 &= -6x - 4y - 12 \\ 0 &= -16 - 8x + 5y \end{aligned}$$

$$\begin{aligned} 5) \quad -7y &= 7 - 6x \\ 0 &= -4x + 7 + 5y \end{aligned}$$

$$\begin{aligned} 6) \quad 9y + 6x &= -3 \\ -2y - 7x + 22 &= 0 \end{aligned}$$

$$\begin{aligned} 7) \quad 9x &= -6 + 5y \\ 4 &= -5x + 3y \end{aligned}$$

$$\begin{aligned} 8) \quad -12 - 24x &= -36y \\ 5 &= -10x + 15y \end{aligned}$$

Solve each system by substitution.

$$9) \begin{aligned} y &= 0 \\ 7x - y &= -21 \end{aligned}$$

$$10) \begin{aligned} 3x + 7y &= -2 \\ -7x - 5y &= 16 \end{aligned}$$

$$11) \begin{aligned} -2x - 5y &= -12 \\ 6x + 5y &= -4 \end{aligned}$$

$$12) \begin{aligned} 2x - 7y &= -8 \\ y &= 0 \end{aligned}$$

$$13) \begin{aligned} y &= -7 \\ -6x + 6y &= 0 \end{aligned}$$

$$14) \begin{aligned} 6x - 2y &= 0 \\ -x - 2y &= 14 \end{aligned}$$

$$15) \begin{aligned} -2x - 2y &= -10 \\ -8x + 2y &= -10 \end{aligned}$$

$$16) \begin{aligned} -7x - y &= 5 \\ -2x + 4y &= 10 \end{aligned}$$

Answers to

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|---------------------------------|----------------|----------------|----------------|
| 1) $(-3, 0)$ | 2) No solution | 3) $(-1, 6)$ | 4) $(-2, 0)$ |
| 5) $(-7, -7)$ | 6) $(4, -3)$ | 7) $(1, 3)$ | |
| 8) Infinite number of solutions | 9) $(-3, 0)$ | 10) $(-3, 1)$ | |
| 11) $(-4, 4)$ | 12) $(-4, 0)$ | 13) $(-7, -7)$ | 14) $(-2, -6)$ |
| 15) $(2, 3)$ | 16) $(-1, 2)$ | | |

