

Substitution Worksheet

Solve each system by substitution.

$$\begin{aligned} 1) \quad y &= -5x - 1 \\ -15x - 3y &= -6 \end{aligned}$$

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

$$\begin{aligned} 3) \quad y &= 4x - 3 \\ -8x - 2y &= 22 \end{aligned}$$

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

$$\begin{aligned} 5) \quad y &= -2x + 3 \\ 7x + 8y &= -21 \end{aligned}$$

$$\begin{aligned} 6) \quad x - 2y &= 16 \\ 3x - 3y &= 24 \end{aligned}$$

$$\begin{aligned} 7) \quad & 8x + 8y = 8 \\ & x + 4y = 7 \end{aligned}$$

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

$$\begin{aligned} 9) \quad & -2x + y = 3 \\ & 4x - 8y = -24 \end{aligned}$$

$$\begin{aligned} 10) \quad & 2x + y = -9 \\ & -6x - 3y = 27 \end{aligned}$$

11) Mei and Ming are selling flower bulbs for a school fundraiser. Customers can buy bags of windflower bulbs and bags of daffodil bulbs. Mei sold 1 bag of windflower bulbs and 8 bags of daffodil bulbs for a total of \$124. Ming sold 1 bag of windflower bulbs and 7 bags of daffodil bulbs for a total of \$110. What is the cost each of one bag of windflower bulbs and one bag of daffodil bulbs?

12) The perimeter of a rectangle is 32 inches. The length of the rectangle is seven more than twice the width. Determine the area of the rectangle.