

Review Solving Systems of Equations

Solve each system by elimination.

$$\begin{aligned} 1) \quad & 3x + 2y = -15 \\ & 4x - 2y = -6 \end{aligned}$$

$$\begin{aligned} 2) \quad & 2x - y = -3 \\ & -2x + 3y = 13 \end{aligned}$$

$$\begin{aligned} 3) \quad & -5x - 4y = 11 \\ & 10x - y = 14 \end{aligned}$$

$$\begin{aligned} 4) \quad & -6x + 5y = 0 \\ & 3x - 3y = -3 \end{aligned}$$

Solve each system by substitution.

$$\begin{aligned} 5) \quad & y = 3x + 9 \\ & 2x + 2y = 2 \end{aligned}$$

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

Solve each system by graphing.

$$\begin{aligned} 7) \quad & y = -x - 1 \\ & y = -5x + 3 \end{aligned}$$

$$\begin{aligned} 8) \quad & y = \frac{1}{4}x - 2 \\ & y = x + 1 \end{aligned}$$

- 9) The school that Rob goes to is selling tickets to a play. On the first day of ticket sales the school sold 4 senior citizen tickets and 6 student tickets for a total of \$90. The school took in \$144 on the second day by selling 2 senior citizen tickets and 12 student tickets. Find the price of a senior citizen ticket and the price of a student ticket.