Solve by elimination:

$$-7x + 5y = 7$$

 $14x + 10y = -14$

Solve by substitution:

$$4x + 6y = -10$$

 $x = 4 + 5y$



Roberto has 16 coins in his pocket consisting of loonies and toonies. How many of each does he have if the total amount of money he has is \$27.

Solve by elimination:

Solve by substitution:

$$4x + 6y = -10$$

$$x = 4 + 5y$$

$$4(4 + 5y) + 6y = -10$$

$$16 + 20y + 6y = -10$$

$$20y + 6y = -10 - 16$$

$$26y = -26$$

$$y = -1$$

$$x = 4 + 5(-1)$$

$$x = 4 - 5$$

$$x = -1$$

$$(-1, -1)$$

Roberto has 16 coins in his pocket consisting of loonies and toonies. How many of each does he have if the total amount of money he has is \$27.

$$\begin{array}{c} L + T = 16 & \textcircled{1} \\ -1L + 2T = 27 & \textcircled{2} \\ \textcircled{1} - \textcircled{2} & -1T = -11 \\ & T = 11 & \textcircled{3} \\ \\ \text{Sub } \textcircled{3}_{\text{in}} \textcircled{1} & L + 11 = 16 \\ & L = 5 \end{array}$$

Roberto has 5 loonies and 11 toonies.

Wilbur and Mary are selling flower bulbs for a school fundraiser. Customers can buy packages of tulip bulbs and bags of daffodil bulbs. Wilbur sold 6 packages of tulip bulbs and 6 bags of daffodil bulbs for a total of \$114. Mary sold 12 packages of tulip bulbs and 2 bags of daffodil bulbs for a total of \$78. Find the cost of a package of tulip bulbs and a bag of daffodil bulbs.



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