

$$-5 \cdot \begin{cases} 2x-4y=8 \\ 5x-3y=13 \end{cases} \quad \begin{array}{l} -10x+20y=-40 \\ 10x-6y=26 \end{array}$$

$$5x-3(-1)=13 \quad 14y=14$$

$$5x+3=13 \quad y=-1$$

$$\begin{array}{r} 5x+3=13 \\ -3 \quad -3 \\ \hline 5x=10 \\ x=2 \end{array}$$

$$(2, -1)$$

$$2(2) - 4(-1) = 8$$

$$4 + 4 = 8$$

$$8 = 8 \checkmark$$

$$4. \quad \begin{array}{l} +6+6x \\ 3x=-6y+12 \\ (-x+3y=6) \cdot 3 \\ 3x+6y=12 \\ -3x+9y=18 \\ \hline 15y=30 \\ 15 \quad 15 \\ \hline y=2 \end{array}$$

$$0 = -12 + 12$$

$$0 = 0 \checkmark$$

$$-x+6=6$$

$$-x=0$$

$$x=0$$

$$(0, 2)$$

5. A toy maker produces wooden trains and wooden planes. Each train requires 3 ounces of paint and each plane requires 5 ounces of paint. The toy maker has a gallon of paint (64 ounces). If he wants to use it to paint 14 toys, how many of each can he paint?

Set up values

$$\begin{array}{r} 3t + p = 14 \\ 3t + 5p = 64 \\ -3t \quad -3p = -52 \\ \hline \end{array}$$

$$(7, 7)$$

7 trains: 7
Planes: 7
for
64 oz. of paint

$$2p = 14$$

$$p = 7$$

$$t = 7$$