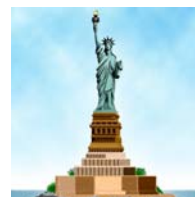


## *Warm-up 11/30*

Solve the following systems of equations

1.  $-28x - 14y = 98$   
 $-20x + 14y = -50$

2.  $4x + 4y = -14$   
 $x + 2y = -6$



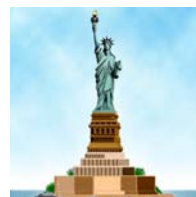
Complete Thursday on your Week 1  
Growth Mindset sheet.

## *Warm-up 11/30*

Solve the following systems of equations

1.  $-28x - 14y = 98$   
 $-20x + 14y = -50$

2.  $4x + 4y = -14$   
 $x + 2y = -6$



# Warm-up 11/30



Solve the following systems of equations

1.  $-28x - 14y = 98$   $(-1, -5)$   
 $-20x + 14y = -50$

$$\begin{array}{r} -28x - 14y = 98 \\ -20x + 14y = -50 \\ \hline -48x = 48 \\ \underline{-48} \quad \underline{-48} \end{array}$$

$x = -1$

$-20(-1) + 14y = -50$

$$\begin{array}{r} 20 + 14y = -50 \\ \underline{-20} \quad \underline{-20} \end{array}$$

$$\frac{14y}{14} = \frac{-70}{14}$$

$y = -5$

2.  $4x + 4y = -14$   $(-1, -2.5)$   
 $-2(x + 2y = -6)$

$$\begin{array}{r} 4x + 4y = -14 \\ -4x - 8y = 24 \\ \hline \end{array}$$

$$\frac{-4y}{-4} = \frac{10}{-4}$$

$y = -2.5$

$$\begin{array}{r} 4x + 4y = -14 \\ -2x - 4y = 12 \\ \hline \end{array}$$

$$\frac{2x}{2} = \frac{-2}{2}$$

$x = -1$

$$\begin{array}{r} 4(-1) + 4y = -14 \\ -4 + 4y = -14 \\ \underline{+4} \quad \underline{+4} \end{array}$$

$$\frac{4y}{4} = \frac{-10}{4}$$

$y = -2.5$

#5

$$\begin{array}{r} 5x + y = 0 \\ -1(5x + 2y = 30) \end{array}$$

$$\begin{array}{r} \cancel{5x} + y = 0 \\ -\cancel{5x} - 2y = -30 \\ \hline \end{array}$$

$$\frac{-y}{-1} = \frac{-30}{-1}$$

$$y = 30$$

$$\begin{array}{r} 5x + \cancel{30} = 0 \\ \quad \quad \quad \cancel{-30} - 30 \\ \hline 5x = -30 \\ \frac{5x}{5} = \frac{-30}{5} \\ x = -6 \end{array}$$

$(-6, 30)$

# How much does Kindness Cost?



Sam spent \$24.75 to buy 12 flowers for his girlfriend. The bouquet contained roses and daisies. How many roses and daisies did Sam buy?

**Fitness** Rusty burns 5 Calories per minute swimming and 11 Calories per minute jogging. In the morning, Rusty burns 200 Calories walking and swims for  $x$  minutes. In the afternoon, Rusty will jog for  $x$  minutes. How many minutes must he jog to burn at least as many Calories  $y$  in the afternoon as he did in the morning? Round your answer up to the next whole number of minutes.

$$200 + 5x = y$$
$$11x = y$$

34 minutes



# Homework

Delta Math Assignment

Teacher Code: 813116