

Warm up

1. Solve the system,
then graph the system to confirm your answer.

$$x + y = 4$$

$$x = 2y + 1$$

$$(3, 1)$$

$$x + y = 4$$

$$(0, 4)$$

$$(4, 0)$$

$$y = -x + 4$$

$$(2y+1) + y = 4$$

$$3y + 1 = 4$$

$$3y = 3$$

$$y = 1$$

$$x = 2y + 1$$

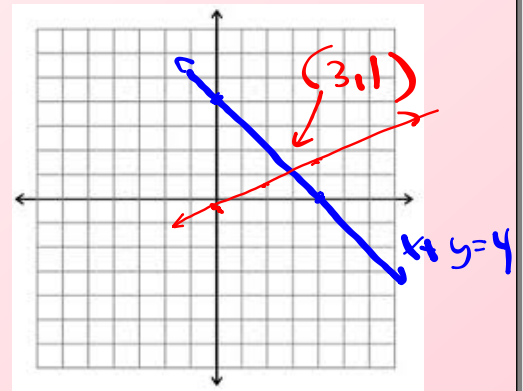
$$x - 1 = 2y$$

$$\frac{1}{2}x - \frac{1}{2} = y$$

$$x = 2(1) + 1$$

$$2 + 1$$

$$3$$



2. Solve: $\left(\frac{2}{5}x - 2\right) = \left(\frac{3}{4}x + 1\right)$

$$\frac{8x - 40}{-8x} = \frac{15x + 20}{-8x}$$

$$\frac{-40}{-20} = \frac{7x + 20}{-20}$$

$$\frac{-60}{7} = \frac{7x}{7}$$

$$\frac{-60}{7} = x$$

3. Write the rule for the table:

x	-3	4	10
y	-13	8	26

$$m = \frac{\Delta y}{\Delta x} = \frac{-13 + 8}{-3 + 4} = \frac{-5}{1} = -5$$

$$y - 8 = 3(x - 4)$$

$$y - 8 = 3x - 12$$

$$y = 3x - 4$$

Go over HW Questions

Go over Post test problem:

You are selling tickets for a high school basketball game. Student tickets cost \$3 and general admission tickets cost \$5. You sell 350 tickets and collect \$1450. How many of each type of ticket did you sell?

Let s = # student tickets sold

g = # general

$$\begin{array}{r} s + g = 350 \\ 3s + 5g = 1450 \end{array} \quad \xrightarrow{-3} \quad \begin{array}{r} -3s + -3g = -1050 \\ 3s + 5g = 1450 \\ \hline \end{array}$$

$$\begin{array}{l} s + 200 = 350 \\ s = 150 \text{ student} \end{array}$$

$$\begin{array}{l} 2g = 400 \\ g = 200 \text{ general tickets} \end{array}$$

Clear your desk for the test.

HW: Yellow WS