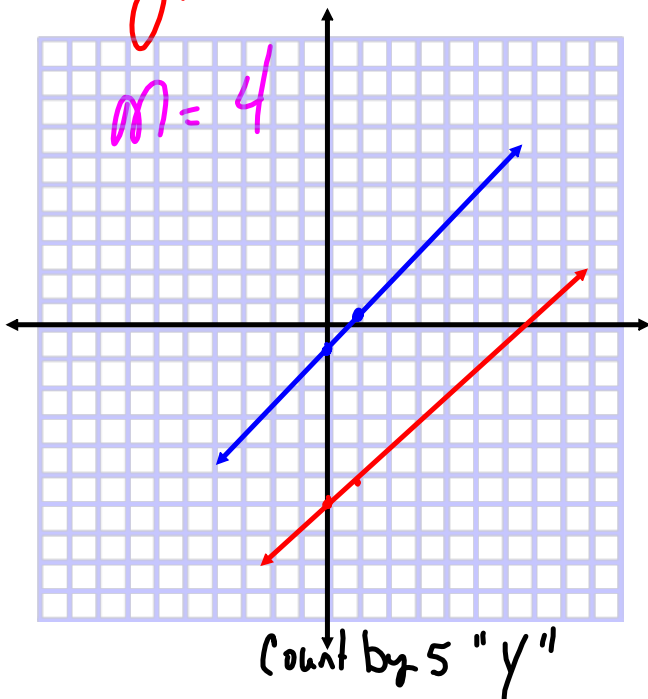


**Bathroom breaks are to be
taken before class!!**
Do NOT move the desk!!
Turn your phone OFF!!
Put your phone up!!
Sit down!! Be quiet!!
Prepare to work!!
Keep your hands to yourself!!

3.7 Worksheet

19.) $(8, 2)$ $y = 4x - 3$
 x_1, y_1

$$y = mx + b$$



$$y - y_1 = m(x - x_1)$$

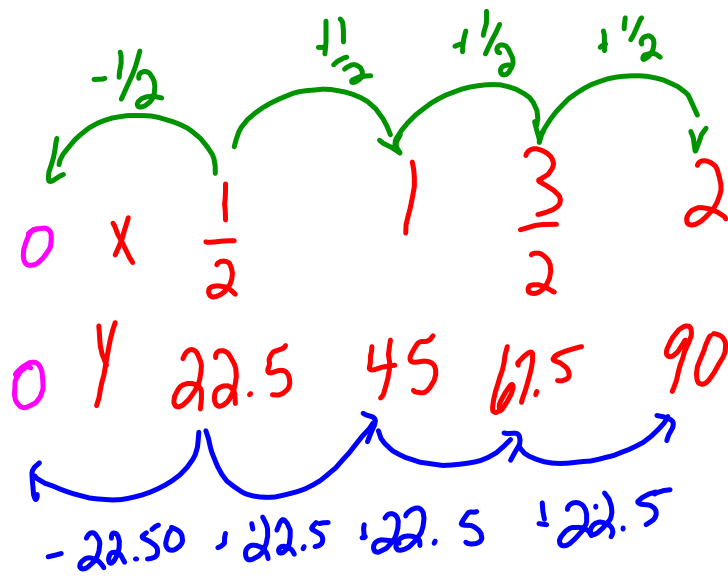
$$y - 2 = 4(x - 8)$$

$$y - 2 = 4x - 32$$

$$y = 4x - 30$$

24)

yes



17) x y

$$\begin{array}{r} +3 \\ +3 \end{array} \left(\begin{array}{cc} \underline{-3} & \underline{-1} \\ \underline{0} & \underline{1} \\ 3 & 3 \end{array} \right) \begin{array}{l} +2 \\ +2 \end{array}$$

$$b = 1 \quad m = \frac{2}{3}$$

$$y = \frac{2}{3}x + 1$$

$$y - y_1 = m(x - x_1)$$

$$y - (-1) = \frac{2}{3}(x - (-3))$$

$$y + 1 = \frac{2}{3}x + 2$$

$$y = \frac{2}{3}x + 1$$

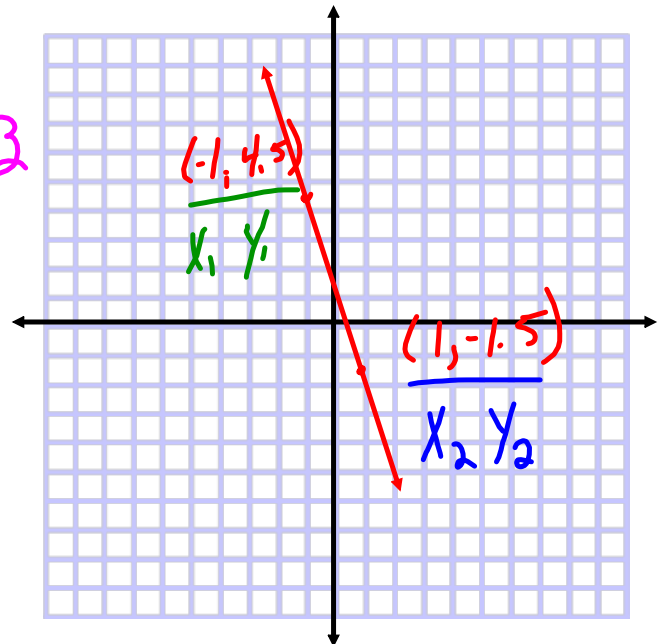
$$m = \frac{y_2 - y_1}{x_2 - x_1} = \frac{1 - (-1)}{0 - (-3)} = \frac{2}{3}$$

$$15) \quad m = \frac{-1.5 - 4.5}{1 - (-1)} = \frac{-6}{2} = -3$$

$$y - y_1 = m(x - x_1)$$

$$y - 4.5 = -3(x - (-1))$$

$$\begin{array}{r} y - 4.5 = -3x - 3 \\ +4.5 \qquad \qquad +4.5 \\ \hline y = -3x + 1.5 \end{array}$$



5) (1, 4)

(2, 9)

(3, 3)

(4, 9)

Domain \Rightarrow x-values

1, 2, 3, 4

function

7) (3, 1)

(3, 5)

(5, 7)

(7, 5)

(9, 9)

Domain

2, 3, 5, 7, 9

Not function

