

**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!!

2.7 Pg 33

$$m = \frac{y_2 - y_1}{x_2 - x_1}$$

$$5) \quad (-3; 4), (6; -1)$$

$x_1 \ y_1 \quad x_2 \ y_2$

$$1) \quad m = \frac{-1 - (-4)}{6 - (-3)} = \frac{3}{9} = \frac{1}{3}$$

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

$$2) \quad y - y_1 = m(x - x_1)$$

$$y - (-4) = \frac{1}{3}(x - (-3))$$

$$y + 4 = \frac{1}{3}x + 1$$

$$y = \frac{1}{3}x - 3$$

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

$$b) \begin{matrix} (-4, 12) & (2, -3) \\ x_1, y_1 & x_2, y_2 \end{matrix}$$

$$1) m = \frac{y_2 - y_1}{x_2 - x_1} = \frac{-3 - 12}{2 - (-4)} = \frac{-15}{6} = \frac{-5}{2}$$

$$2) y - y_1 = m(x - x_1)$$

$$y - 12 = \frac{-5}{2}(x - (-4))$$

$$y - 12 = \frac{-5}{2}x - 10$$

$$\begin{array}{r} +12 \qquad \qquad +12 \\ \hline y = -\frac{5}{2}x + 2 \end{array}$$

$$m = -\frac{5}{2} \quad b = 2$$

$$7) \begin{matrix} (-1, -2) & (1, -6) \\ x_1 & y_1 & x_2 & y_2 \end{matrix}$$

$$1) m = \frac{y_2 - y_1}{x_2 - x_1} = \frac{-6 - (-2)}{1 - (-1)} = \frac{-4}{2} = -2$$

$$2) y - y_1 = m(x - x_1)$$

$$y - (-2) = -2(x - (-1))$$

$$\begin{array}{r} y + 2 = -2x - 2 \\ -2 \quad \quad -2 \\ \hline \end{array}$$

$$y = -2x - 4$$

$$m = -\frac{2}{1} \quad b = -4$$

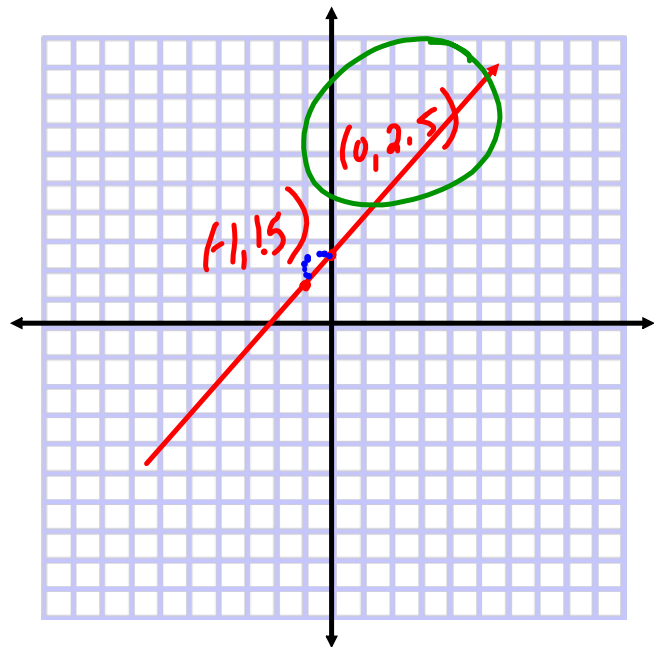
2.7 Worksheet

$$13) y = mx + b$$

$$b = 2.5$$

$$m = \frac{1}{1} = 1$$

$$y = 1x + 2.5$$



$$m = \frac{2.5 - 1.5}{0 - (-1)} = \frac{1}{1} = 1$$

3.7 Worksheet

$$H) m = \frac{2}{1}$$

$$1) m = \frac{2.5 - 1.5}{2 - 1} = \frac{2}{1}$$

$$2) y - 1.5 = 2(x - 1)$$

$$y - 1.5 = 2x - 2$$

$$\begin{array}{r} + 1.5 \quad + 1.5 \\ \hline \end{array}$$

$$y = 2x - 0.5$$

$$m = 2 \quad b = -0.5$$

