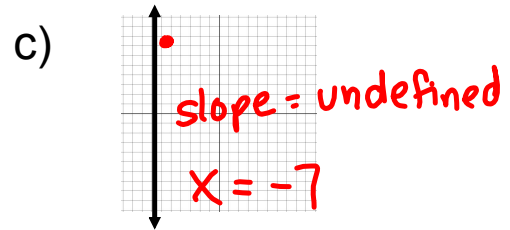
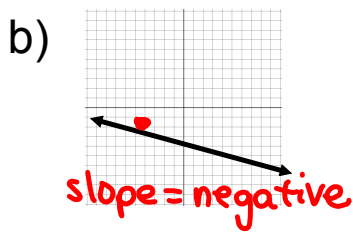
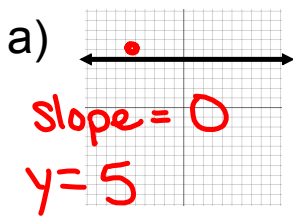


Warm-Up (Look at notes for help)

1) Match the Graph with the equation



d) x = -7

e) y = 5

f) y = -1/4 x - 4

2) What do you know about slope and slope intercept?

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

$$y = mx + b$$

m = slope  
b = y-intercept

Ex  $\begin{matrix} x_1 & y_1 \\ (-4, & 8) \end{matrix} \begin{matrix} x_2 & y_2 \\ (1, & 3) \end{matrix}$

Write the equation

1) Find slope

$$m = \frac{3 - 8}{1 - (-4)} = \frac{-5}{5} = -1 = m$$

Equation:  $y = -1x + 4$

$$y = mx + b$$

2) Find b (plug in m & (x, y))

$$y = mx + b$$

$$8 = -1 \cdot 4 + b$$

$$8 = -4 + b$$

$$+4 \quad +4$$

$$4 = b$$