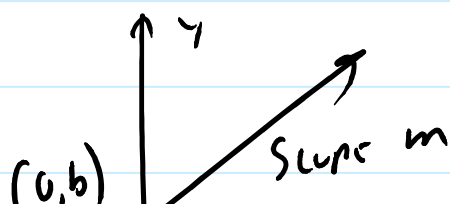
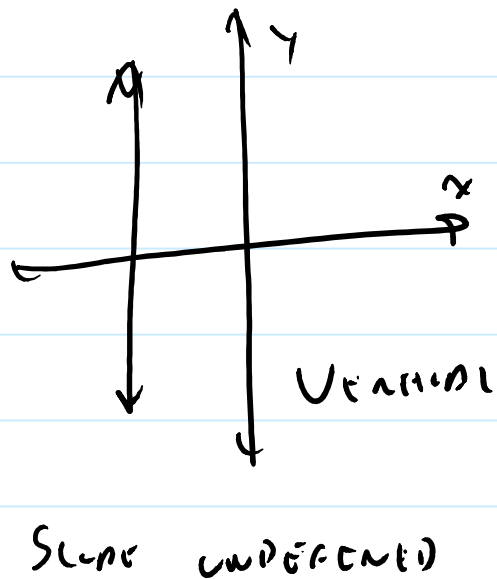
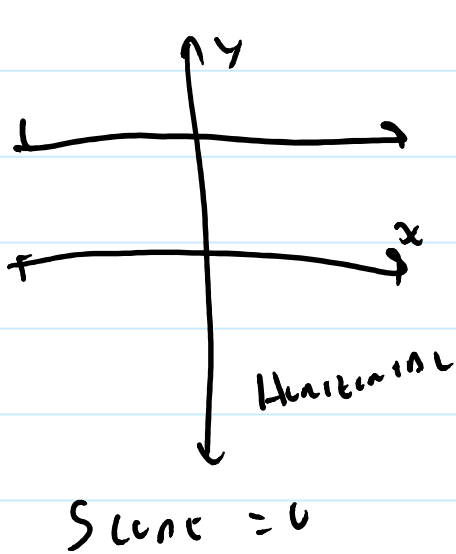
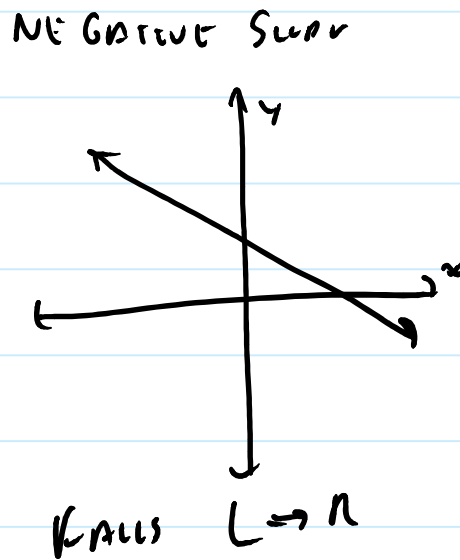
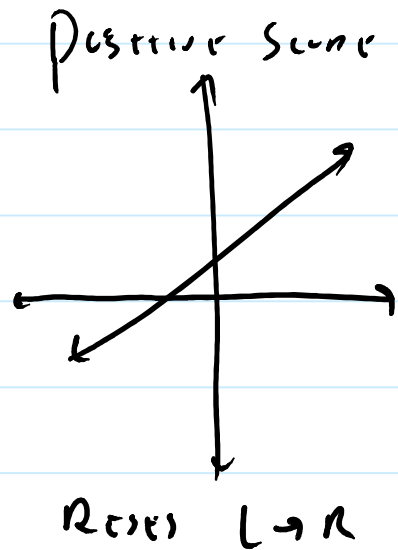
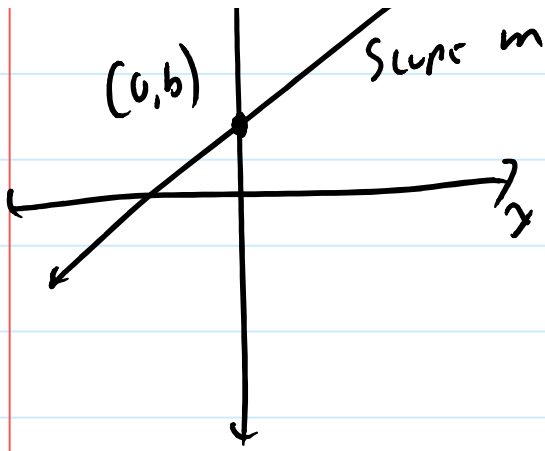


$$\text{Slope} = m = \frac{\Delta y}{\Delta x} = \frac{\text{Rise}}{\text{Run}} = \frac{y_2 - y_1}{x_2 - x_1} = \text{RATE OF CHANGE}$$



$$y = mx + b$$



IDENTIFY

$$y = \frac{1}{4}x - 2$$

$$y = 3$$

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

$$m = 0 \quad b = +3$$

$$-3x - 2y = 6$$

$$-2y = 3x + 6$$

$$y = -\frac{3}{2}x - 3$$

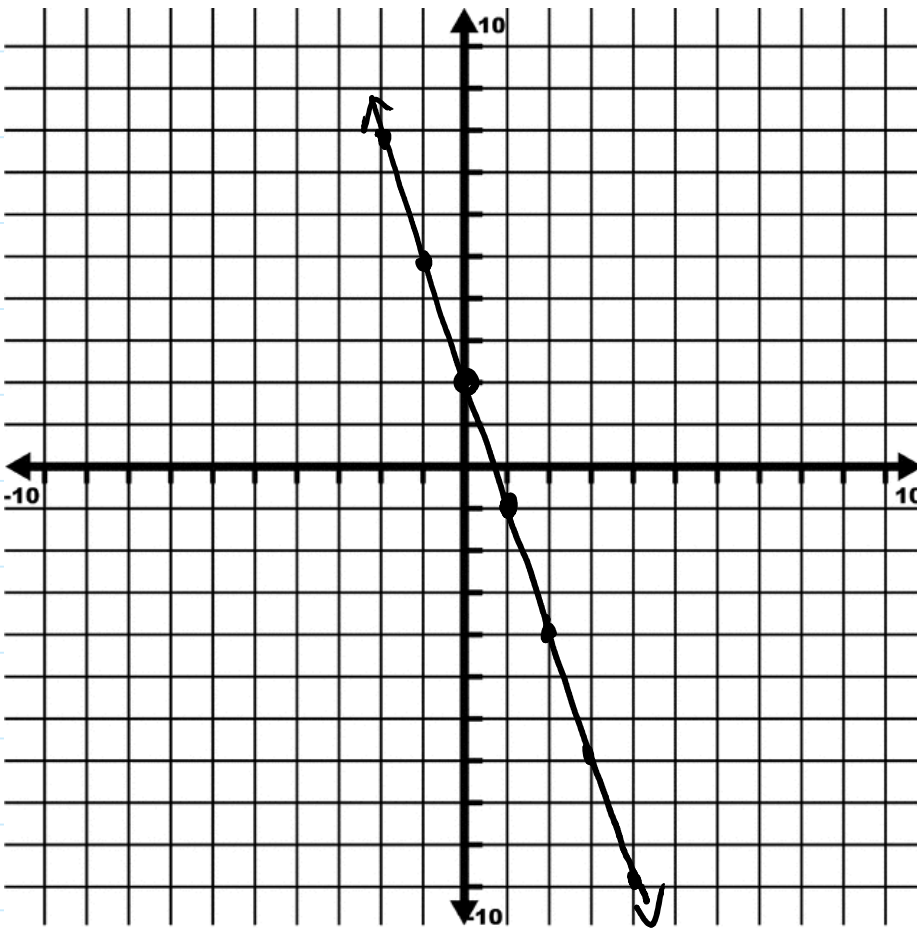
$$m = -\frac{3}{2} \quad b = -3$$

Graph Linear Function that has a

DECREASE OF 3 IN THE DEPENDENT VARIABLE
FOR EVERY INCREASE OF 1 IN THE INDEPENDENT VARIABLE
AND FOR WHICH $g(0) = 2$

$$\frac{\Delta y}{\Delta x} = \frac{-3}{1} = -3 \quad \text{Year } (0, 2)$$

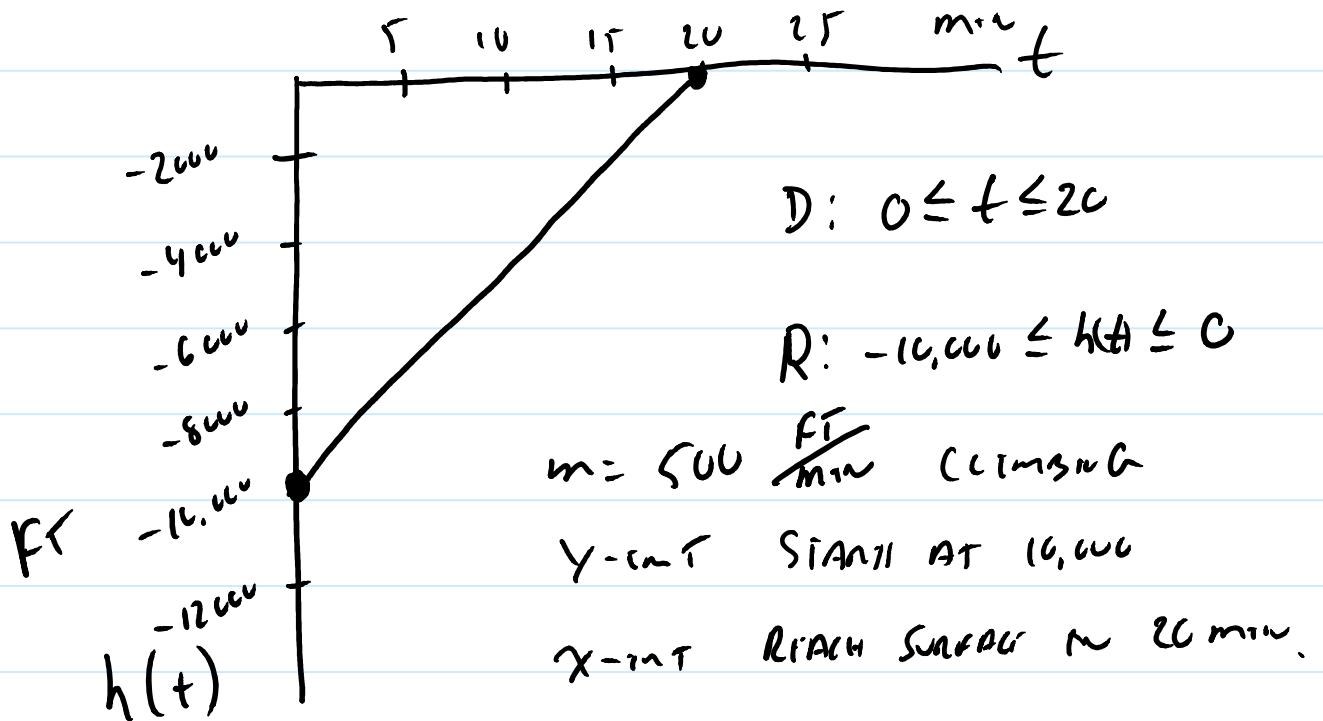
$$y = -3x + 2$$



THE ELEVATION OF A SUBMERSIBLE IS MODELLED

By $h(t) = 500t - 10,000$. $h(t)$ is in FEET AND t is in minutes.

a) GRAPH b) Domain, RANGE, c) Describe slope and int.



Graphing form $y = mx + b$

1) Rewrite into $y = mx + b$ form

2) plot b

3) Use m to plot several points

4) Graph Line

$$\{x \quad 3x - y = 2$$

$$-y = -3x + 2$$

$$y = 3x - 2$$

