

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!!

Review for Test

1) Decreasing
Negative
falls

$$m = \frac{y_2 - y_1}{x_2 - x_1} \quad \begin{matrix} (-3, 1) \\ x_1 \quad y_1 \end{matrix}$$

$$m = \frac{-2 - 1}{2 - (-3)} = \frac{-3}{5} \quad \begin{matrix} (2, -2) \\ x_2 \quad y_2 \end{matrix}$$

2) Increasing
Positive

Rises

$$m = \frac{y_2 - y_1}{x_2 - x_1} \quad \begin{matrix} (-1, -4) \\ x_1 \quad y_1 \end{matrix}$$

$$m = \frac{-1 - (-4)}{0 - (-1)} \quad \begin{matrix} (0, -1) \\ x_2 \quad y_2 \end{matrix}$$

$$m = \frac{3}{1}$$

$$3) \quad \begin{array}{cc} (1, 4) & (3, -6) \\ x_1, y_1 & x_2, y_2 \end{array}$$

$$m = \frac{-6 - 4}{3 - 1} = \frac{-10}{2} = -5$$

4)

x	-9	-5	-1	3
y	-2	0	2	4

+4 +4 +4
+2 +2 :2

$$m = \frac{2}{4} = \frac{1}{2}$$

$$\begin{array}{r} 5) \quad -0.75x + y = 4 \\ \quad + 0.75x \qquad + 0.75x \\ \hline \qquad \qquad y = 0.75x + 4 \end{array}$$

$$m = 0.75 \quad b = 4$$

$$m = \frac{3}{4}$$

4)

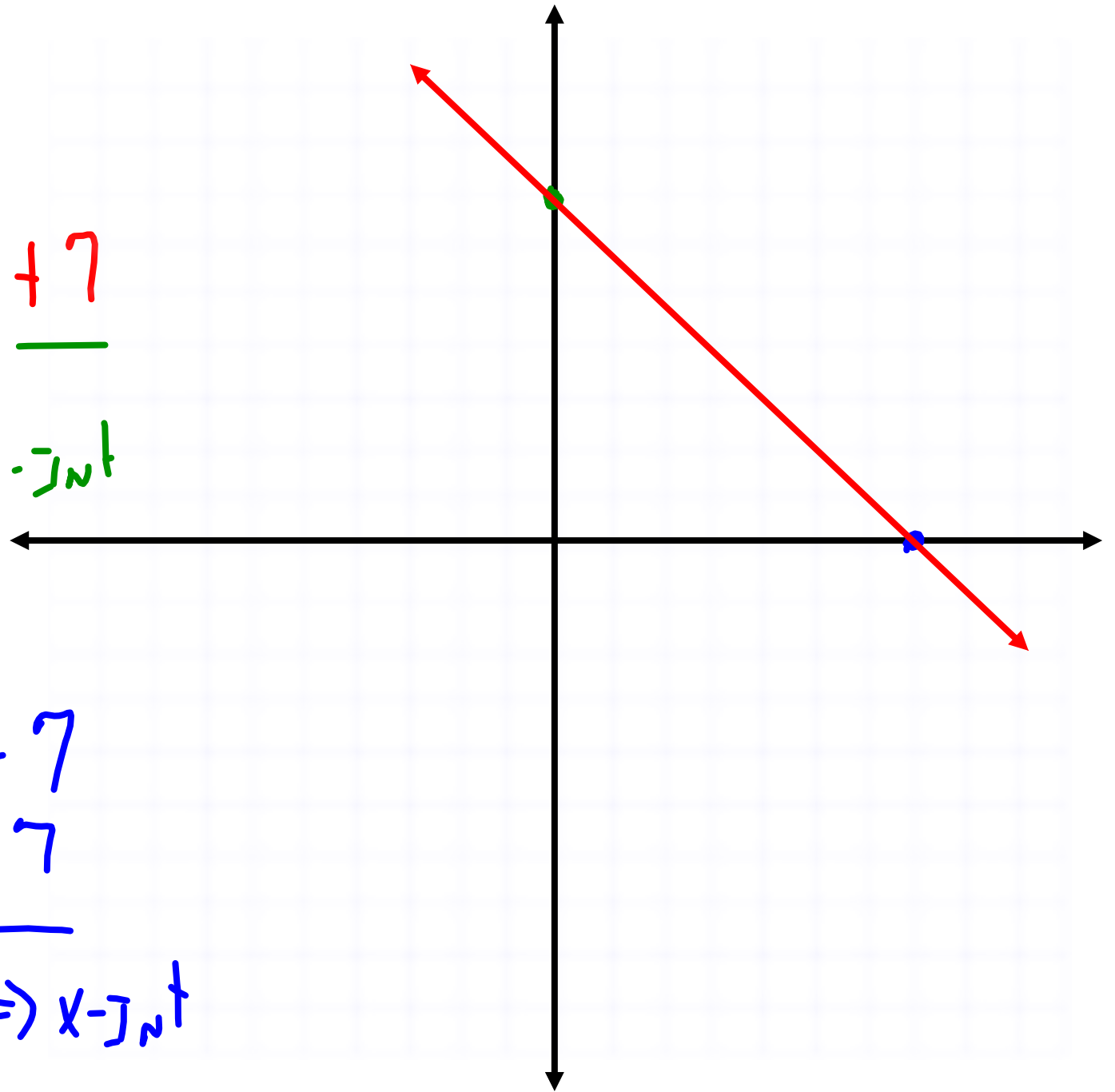
$$y = -x + \underline{7}$$

$$b = 7 \Rightarrow y\text{-Int}$$

$$x\text{-Int}$$

$$\begin{array}{r} 0 = -x + 7 \\ -7 \quad -7 \\ \hline \end{array}$$

$$+7 = +x \Rightarrow x\text{-Int}$$



$$1) f(x) = \frac{1}{3}x + 3$$

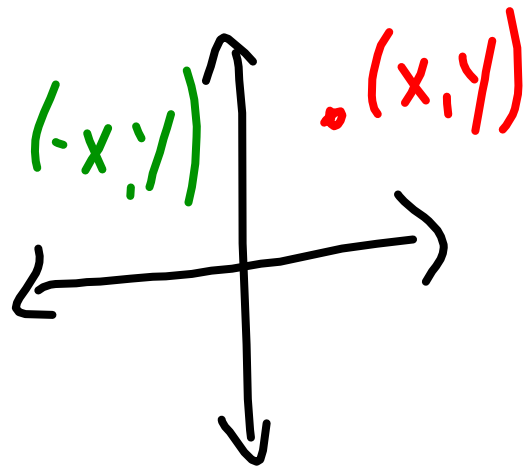
$$g(x) = f(x) - \underline{3}$$

VT \downarrow 3

$$B) f(x) = -5 - x$$

$$h(x) = f(-x)$$

Ref l y-axis



$$a) f(x) = 3x + 5$$

$$R(x) = f\left(\frac{1}{3}x\right)$$

HT \leftrightarrow by 3

$$b) f(x) = 3x - 12$$

$$h(x) = \frac{1}{6}f(x)$$

VT \downarrow by $\frac{1}{6}$

$$11) f(x) = x - 2$$

$$g(x) = f(x + 4)$$

$$HT \leftarrow 4$$

$$12) f(x) = 3x + 8$$

$$g(x) = f\left(\frac{2}{3}x\right)$$

$$HT \leftrightarrow \text{by } \frac{3}{2}$$