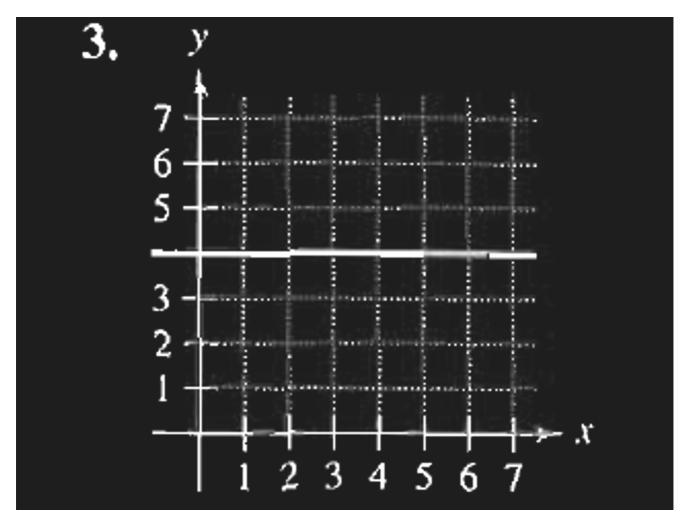
# **Chapter P.2 Homework**

Q3:

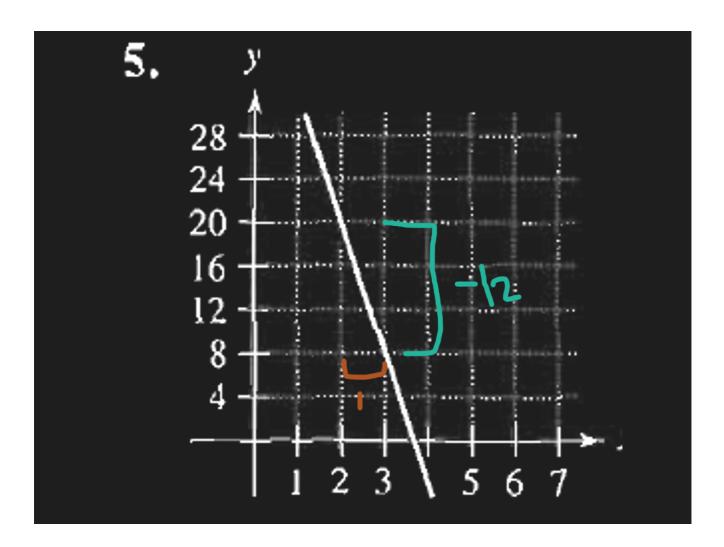
Estimate the graph's slope:



Looks like slope of 0 to me.

### **Q5:**

Estimate the graph's slope:

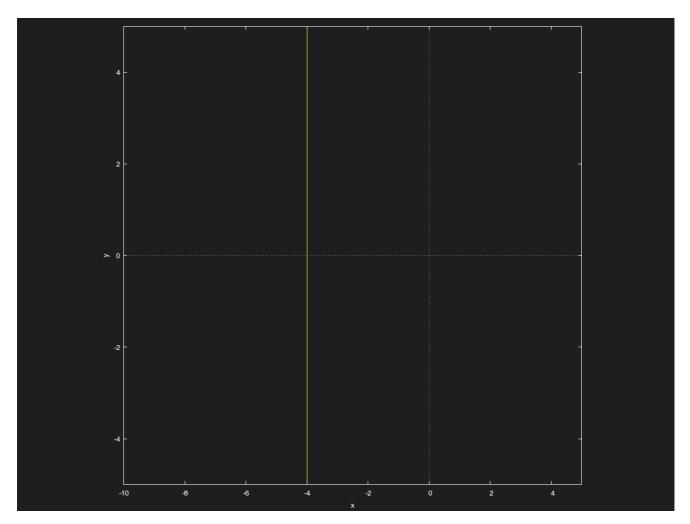


Looks like -12 slope to me.

### Q16:

Use the point (-4,3) to find a line and 3 additional points the line goes through if its slope is undefined.

Literally x = -4:



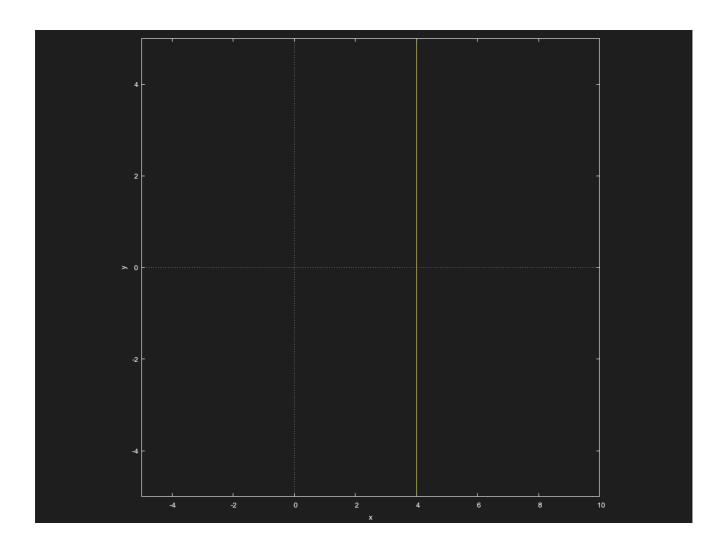
Replace the y in the points but keep x intact and you infinite points to choose from.

#### **Q27:**

Find the slope and y intercept of the following line:

$$x = 4$$

Literally undefined slope and no  $\boldsymbol{y}$  intercept moment:

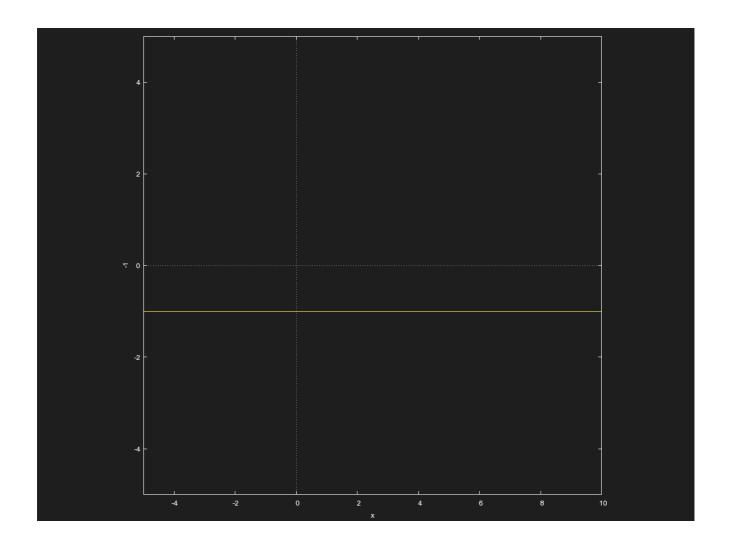


## **Q28:**

Literally the above but the equation is

$$y = -1$$

Me when 0 slope and 0 as the y intercept:



#### **Q46:**

Show that the line with intercepts (a,0) and (0,b) has the following equation:

$$rac{x}{a}+rac{y}{b}=1, a
eq 0, b
eq 0$$

Ahem: y intercept is when x = 0

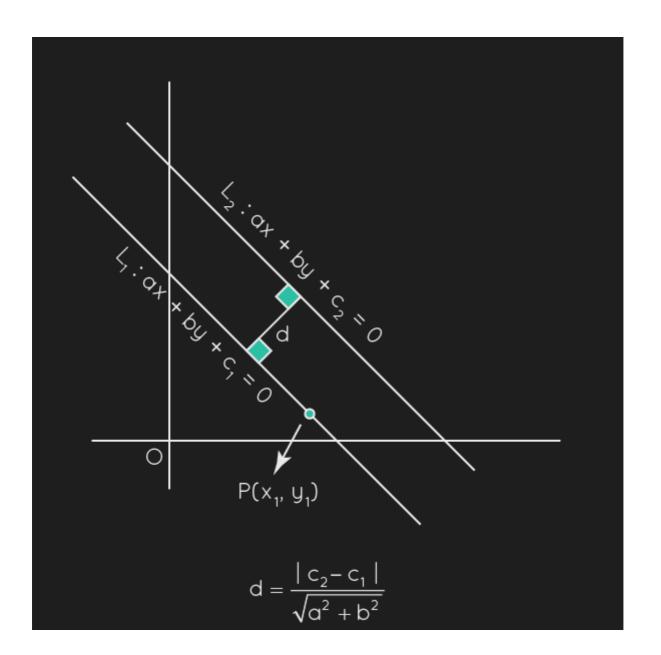
$$\frac{0}{a} + \frac{y}{b} = 1$$

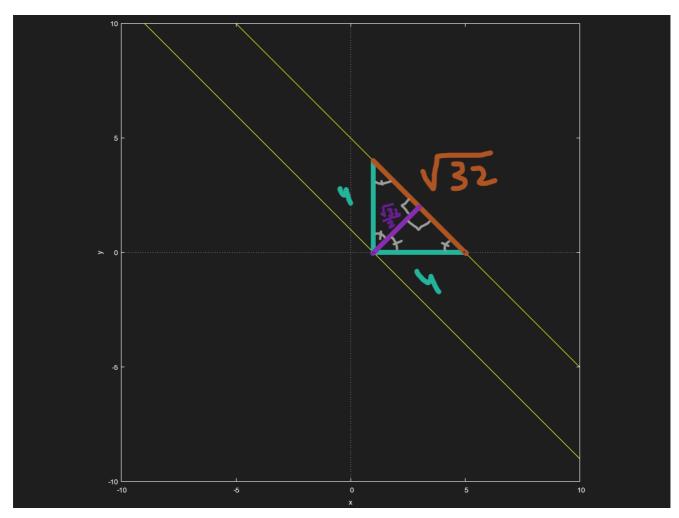
$$y = b$$

x intercept is when y = 0  $\frac{x}{a} + \frac{0}{b} = 1$  x = a QED.

#### **Q91:**

Find the distance between these lines:  $\begin{cases} x+y=1 \\ x+y=5 \end{cases}$ 





Distance 
$$=\frac{\sqrt{32}}{2}=2\sqrt{2}$$