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Gómez**

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**Ejercicio de Límites**

**Biomatemáticas**

**2° "A"**

**EJERCICIOS**

$\lim_{x \rightarrow a} f(x) = L$

$\lim_{x \rightarrow 2.5} x^2 \quad \lim (2.5)^2 = 6.25$

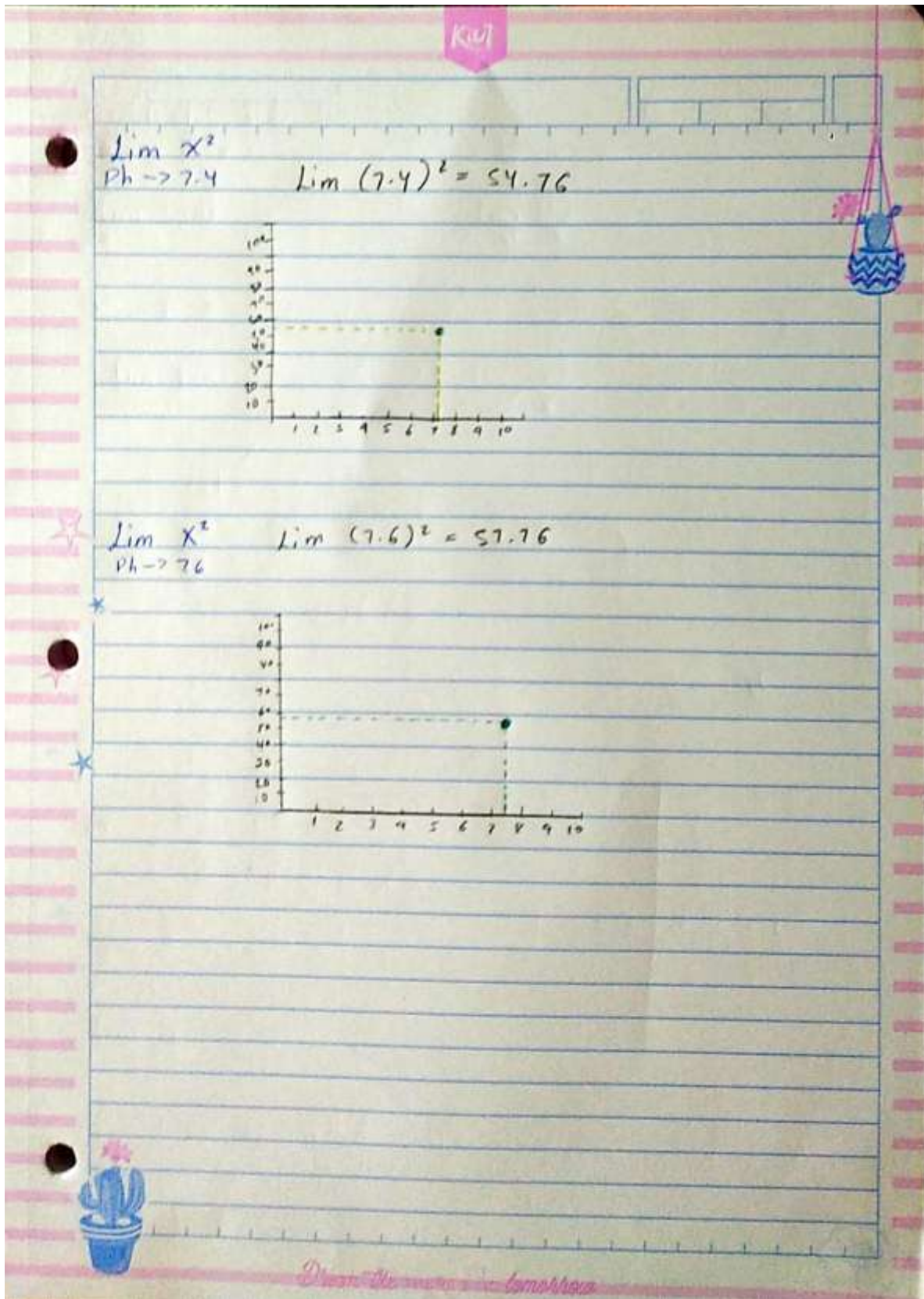
$\lim_{x \rightarrow 1.5} x^2 \quad \lim (1.5)^2 = 2.25$

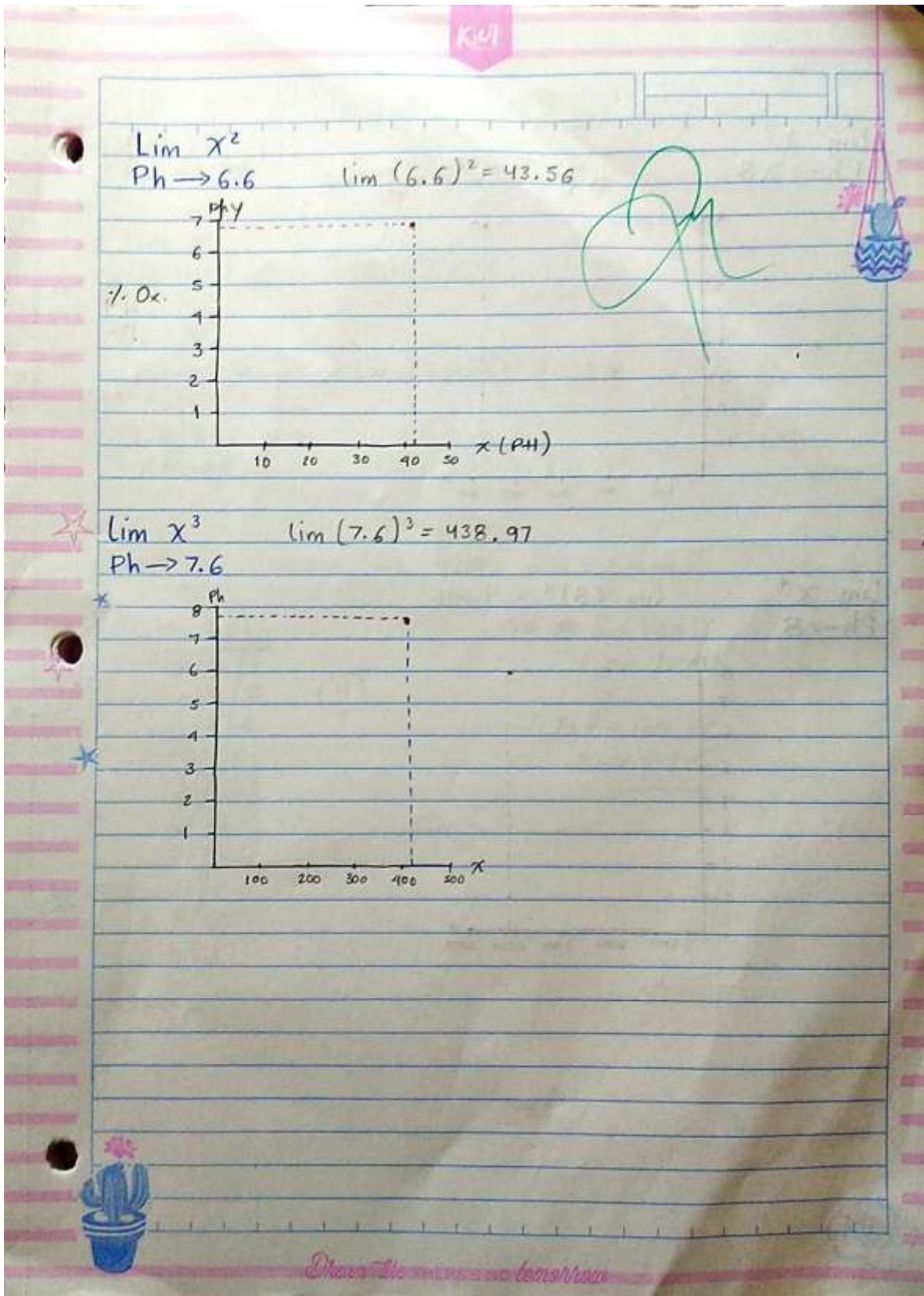
$\lim_{x \rightarrow 3} x^2 \quad \lim (3)^2 = 9$

$\lim_{x \rightarrow 1} \frac{x^2 - 1}{x - 1} \quad \lim \frac{\cancel{x-1}(x+1)}{\cancel{x-1}} = (x+1) = 1+1 = 2$

$\lim_{Ph \rightarrow 7.2} x^2 \quad \lim (7.2)^2 = 51.84$

NEVER STOP *Doing your best*



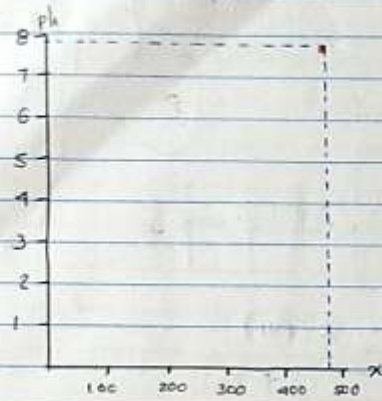


Kol

$$\lim_{Ph \rightarrow 7.8} x^3$$

$$Ph \rightarrow 7.8$$

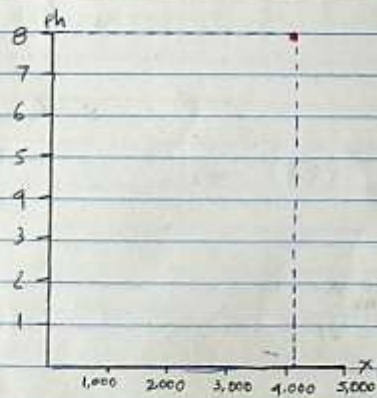
$$\lim (7.8)^3 = 474.55$$



$$\lim_{Ph \rightarrow 8} x^4$$

$$Ph \rightarrow 8$$

$$\lim (8)^4 = 4,096$$



NEVER STOP *Doing your best*

Kul

- 1)  $\lim_{Ph \rightarrow 6.6} x^2$        $\lim (6.6)^2 = 43.56$
- 2)  $\lim_{Ph \rightarrow 7.6} x^2$        $\lim (7.6)^2 = 57.76$
- 3)  $\lim_{Ph \rightarrow 7.8} x^2$        $\lim (7.8)^2 = 60.84$
- 4)  $\lim_{Ph \rightarrow 8} x^2$        $\lim (8)^2 = 64$

m.c.d.  $4,096 \rightarrow 4,096 \div 4 = 1,024$

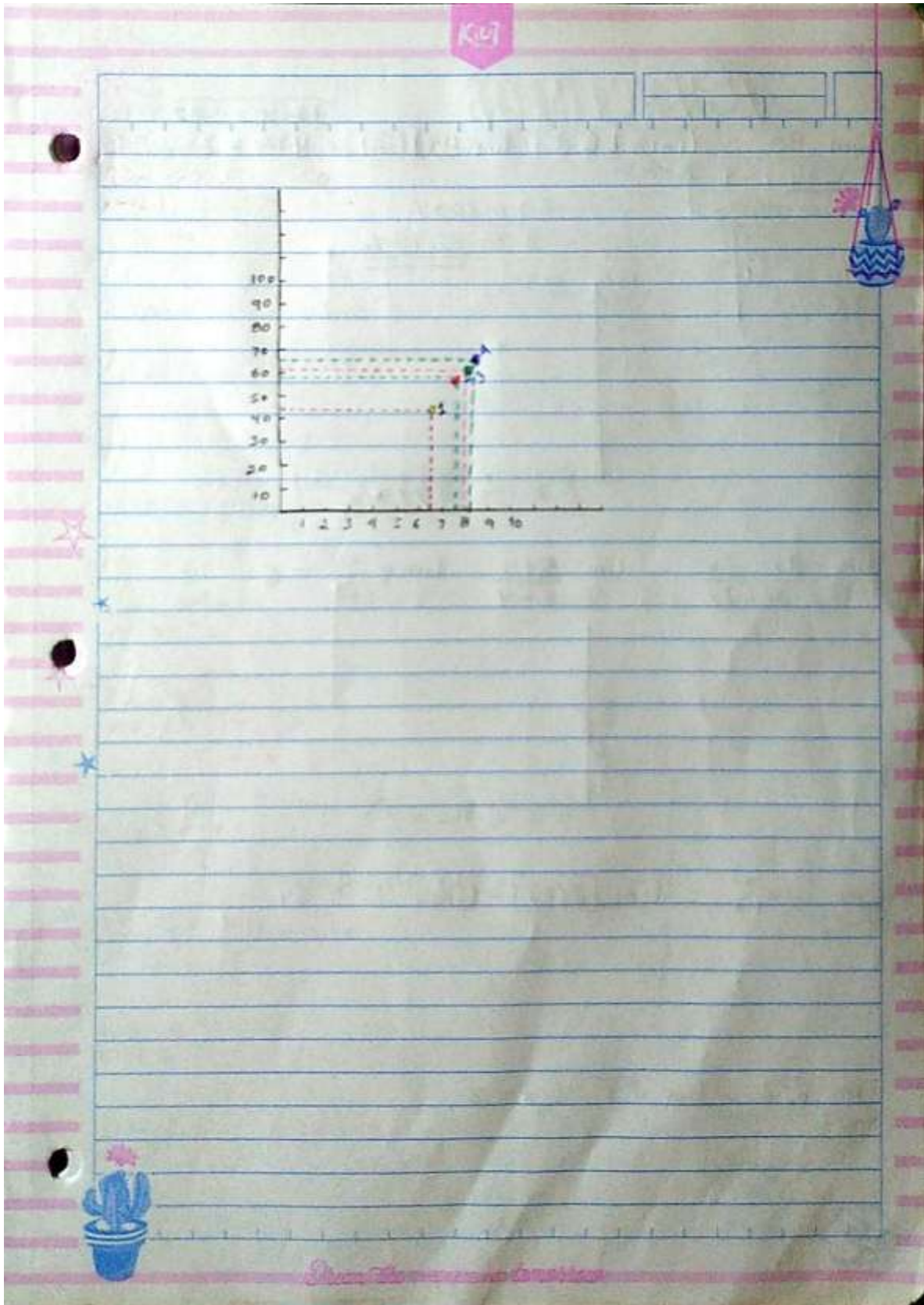
4.096 | 2  
 2048 | 2  
 1,024 | 2  
 512 | 2  
 256 | 2  
 128 | 2  
 64 | 2  
 32 | 2  
 16 | 2  
 8 | 2  
 4 | 2  
 2

(2)

Ph  $\rightarrow 8 \rightarrow 100\%$   
 4  $\rightarrow 50\%$   
 8  $\rightarrow 100\%$   
 2  $\rightarrow 25\%$



*Don't be sad tomorrow*



KUL

15 02 22

$\lim_{x \rightarrow 6.1} 80$       $\lim = KL$       $\lim_{x \rightarrow a} (80)(6.1) = 488 = 2$

$$\begin{array}{r} mcd \ 488 \ 2 \\ 244 \ 2 \\ 122 \ 2 \\ 61 \end{array}$$

$$6.1 - 100\%$$

$$2 - \underline{\underline{32.78\%}}$$

$\lim_{x \rightarrow 2} \frac{4x+2x}{3x-2x}$       $\lim \frac{8+4}{6-4}$       $\lim = \frac{12}{2} = 6$

$\lim_{x \rightarrow 2} [2x]^3$       $\lim [2(2)]^3 = \lim = 4^3 = 64$

$\lim_{x \rightarrow 2} \sqrt{2x}$       $\lim \sqrt{4}$       $\lim = 2$

NEVER STOP *Doing your best*



K11

$\lim_{x \rightarrow a} KL$

1)  $\lim_{x \rightarrow 6} 6 \quad \lim (6)(6) = 36$

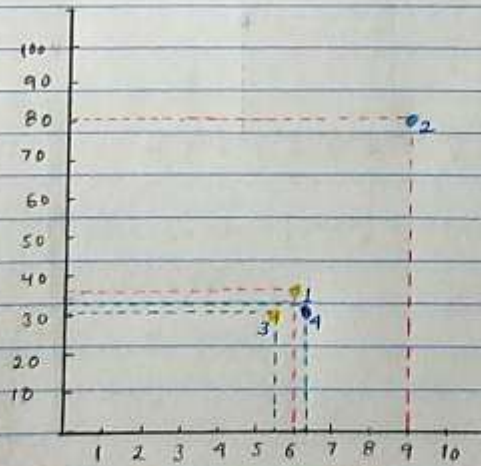
2)  $\lim_{x \rightarrow 9} 9 \quad \lim (9)(9) = 81$

3)  $\lim_{x \rightarrow 5.5} 5.5 \quad \lim (5.5)(5.5) = 30.25$

4)  $\lim_{x \rightarrow 6.1} 80 \quad \lim (80)(6.1) = 488$

$6.1 \rightarrow 100\%$   
 $2 \rightarrow 32.78\%$

488	2	m.c.d <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">2</span>
244	2	
122	2	
61		



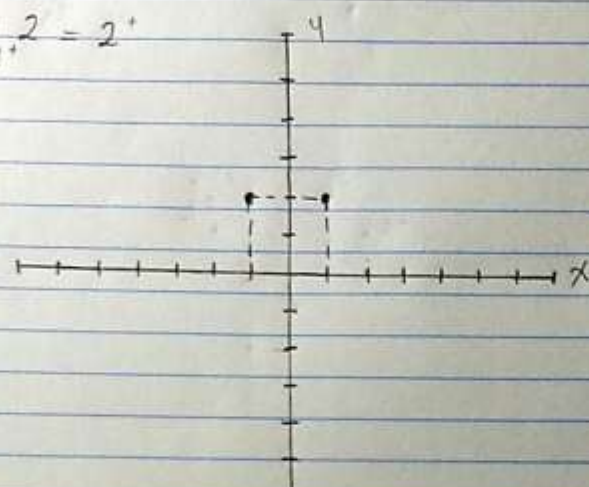
NEVER STOP *Doing your best*

KUT

$$f(x) = \frac{|x|}{x} \begin{cases} x^2 + 1 & \text{si } x < 1 \\ 2 & \text{si } x > 1 \end{cases}$$

$\lim_{x \rightarrow 1^-} x^2 + 1 = (1)^2 + 1 = 2^-$

$\lim_{x \rightarrow 1^+} 2 = 2^+$

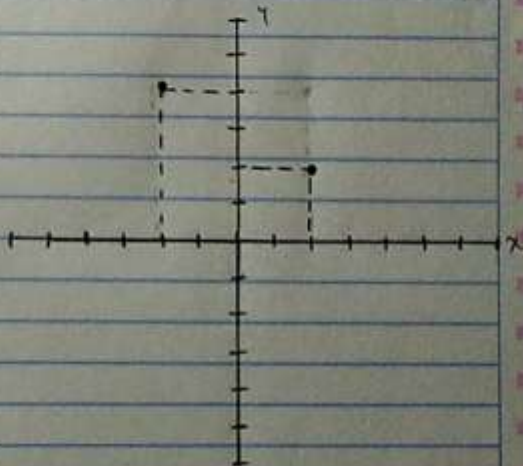


$* f(x) = \frac{|x|}{x} = \begin{cases} x^2 & \text{si } x < 2 \\ 1 & \text{si } x = 2 \\ 6 - 2x & \text{si } x > 2 \end{cases}$

$\lim_{x \rightarrow 2^-} x^2 = \lim 2^2 = 4$

$\lim_{x \rightarrow 2} 1 = 1$

$\lim_{x \rightarrow 2^+} 6 - 2x = \lim 6 - 4 = 2$



Diana de Matemáticas