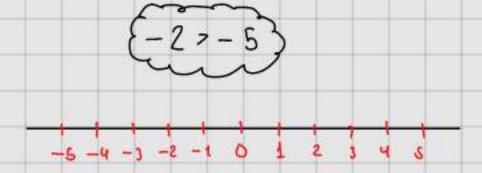
## Inecuaciones

Abierto JE

Carago [ ]

notal el too y -oo siempre son abiertas

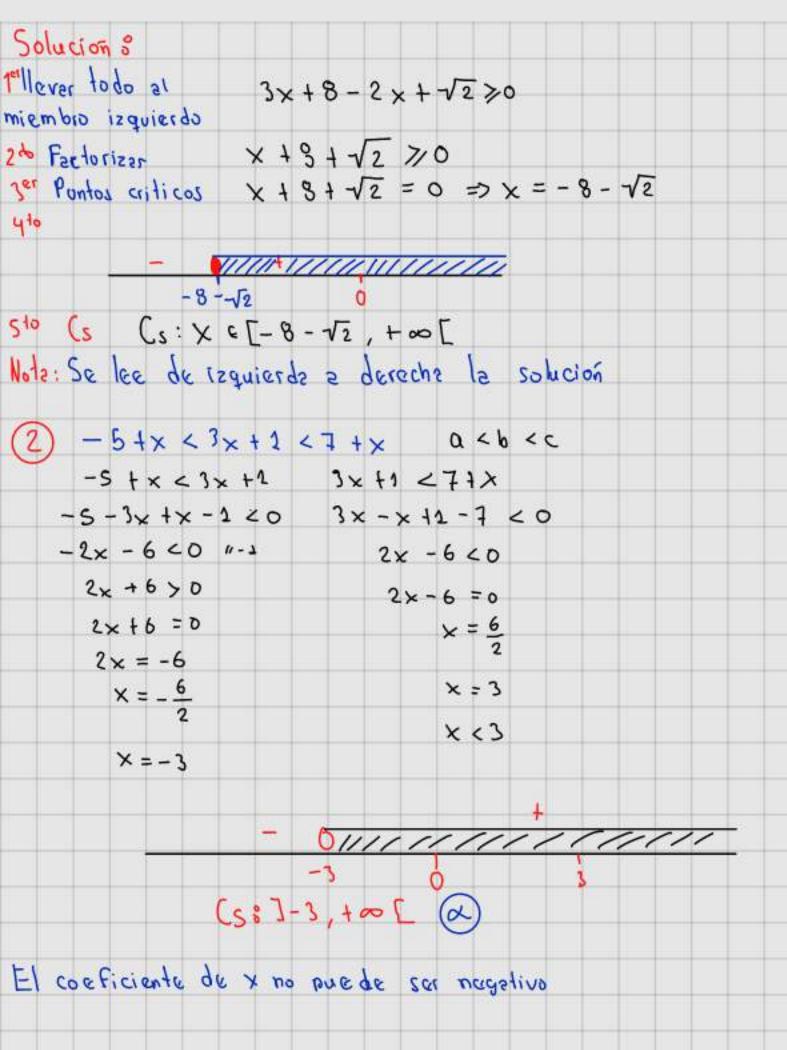
note ?: Cuendo multiplico un vebr nogetivo cembia de sentido

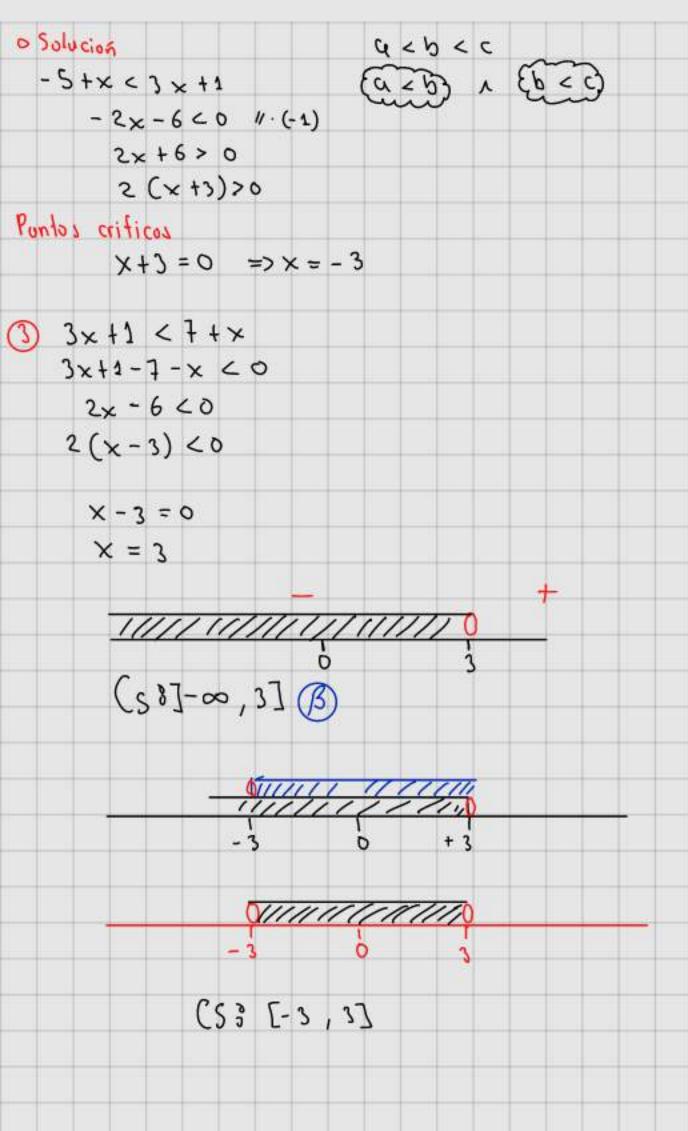


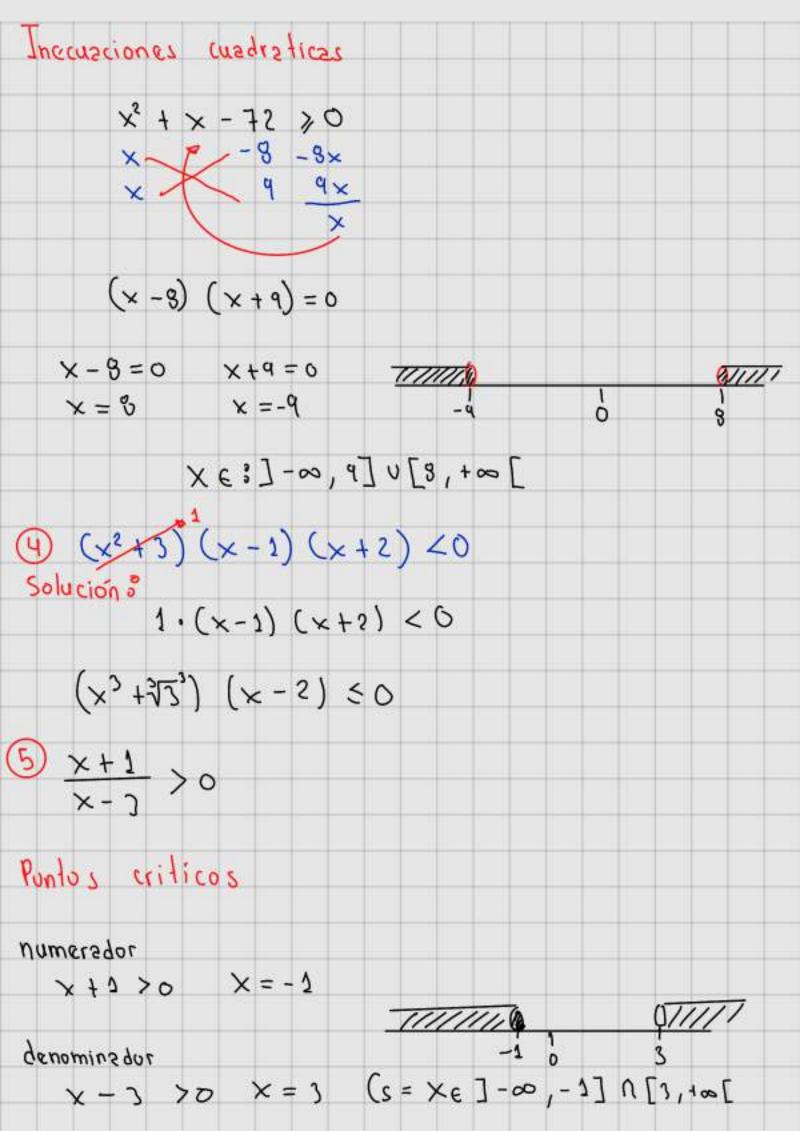
Note 7: El denominador siempre es abierto

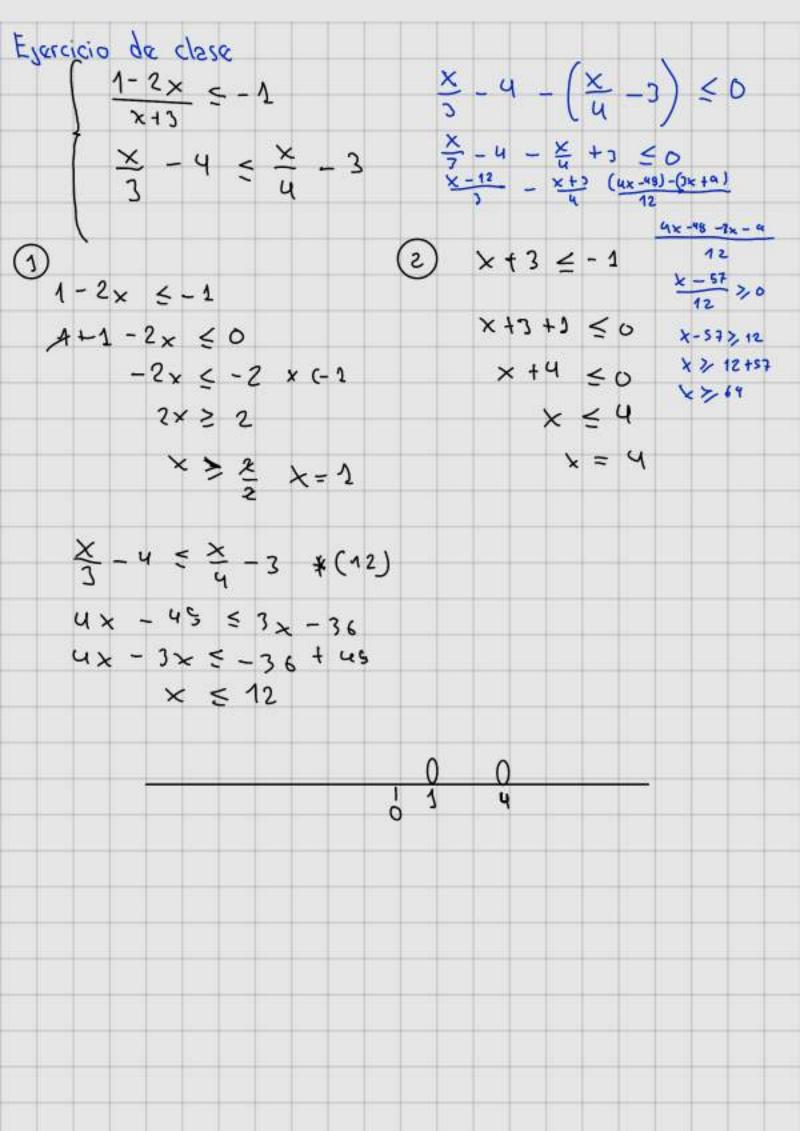
$$\frac{p}{\sigma} \geqslant c$$

Note 4: llever todo el miembro izquierco como sume y resta Inecuzciones Lineales









$$\frac{(x-2)^{2020}(x-1)^3(x-6)^2(x-3)}{(x-8)(x-2)(x-6)^2(x-3)} > 0.000 \times \pm 6$$
Solución
$$\frac{(x-2)^{2023}(x-1)^3(x-6)^2(x-3)^6}{x-8} > 0$$
Pontos críticos
$$\frac{(x-2)^{2023}(x-1)^3(x-6)^2(x-3)^6}{x-8} > 0$$

$$\frac{(x-2)^{2023}(x-1)^3(x-6)^2(x-3)^6}{x-8} > 0$$

$$\frac{(x-2)^{2023}(x-1)^3(x-6)^2(x-3)^6}{x-8} > 0$$

$$\frac{(x-6)^2(x-3)^3(x-1)^3(x-6)^2(x-3)^6}{x-9} > 0$$

$$\frac{(x-6)^2(x-3)^3(x-1)^3(x-6)^2}{x-9} > 0$$

$$\frac{(x-6)^2(x-1)^3(x-6)^2}{x-9} > 0$$

$$\frac{(x-6)^2(x-1)^3(x-1)^3(x-1)^3(x-1)^3}{x-9} > 0$$

$$\frac{(x-6)^2(x-1)^3(x-1)^3(x-1)^3(x-1)^3(x-1)^3(x-1)^3(x-1)^3$$

1 + · · · · +	1	M,	A _	m 1+m	2 + ···+mn
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ν.					
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		3>2			
α÷c>b	÷9	2+3>12			
o Entonces	gemostisi				
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1/4 +	1 0	*,470	МΑ	= <u>×+×</u> 2	
		Y,Z>0	АМ	$= \frac{y+z}{2}$	
	6	×,2>b	MA	= <u>*+2</u>	
	$\begin{array}{c} \cdot \cdot$	$\frac{1}{2} + \frac{1}{2} = \frac{2}{2} + \frac{2}{2}$ $\frac{1}{2} + \frac{1}{2} = \frac{2}{2} + \frac{2}{2}$ $\frac{1}{2} + \frac{1}{2} = \frac{2}{2} + \frac{2}{2}$ $\frac{1}{2} + \frac{1}{2} = \frac{2}{2} + \frac{2}{2} = \frac{2}{2}$ $\frac{1}{2} + \frac{1}{2} = \frac{2}{2} = \frac{2}$	Modelling  1.60	Moder curves  A > b  C < d  A > b  C < d  A > c < d  A > c < d  A > c < d  A > c < d  A > c < d  A > c < d  A > c < d  A > c < d  A > c < d  A > c < d  A > c < d  A > c < d  A > c < d  A > c < d  A > c < d  A > c < d  A > c < d  A > c < d  A > c < d  A > c < d  A > c < d  A > c < d  A > c < d  A > c < d  A > c < d  A > c < d  A > c < d  A > c < d  A > c < d  A > c < d  A > c < d  A > c < d  A > c < d  A > c < d  A > c < d  A > c < d  A > c < d  A > c < d  A > c < d  A > c < d  A > c < d  A > c < d  A > c < d  A > c < d  A > c < d  A > c < d  A > c < d  A > c < d  A > c < d  A > c < d  A > c < d  A > c < d  A > c < d  A > c < d  A > c < d  A > c < d  A > c < d  A > c < d  A > c < d  A > c < d  A > c < d  A > c < d  A > c < d  A > c < d  A > c < d  A > c < d  A > c < d  A > c < d  A > c < d  A > c < d  A > c < d  A > c < d  A > c < d  A > c < d  A > c < d  A > c < d  A > c < d  A > c < d  A > c < d  A > c < d  A > c < d  A > c < d  A > c < d  A > c < d  A > c < d  A > c < d  A > c < d  A > c < d  A > c < d  A > c < d  A > c < d  A > c < d  A > c < d  A > c < d  A > c < d  A > c < d  A > c < d  A > c < d  A > c < d  A > c < d  A > c < d  A > c < d  A > c < d  A > c < d  A > c < d  A > c < d  A > c < d  A > c < d  A > c < d  A > c < d  A > c < d  A > c < d  A > c < d  A > c < d  A > c < d  A > c < d  A > c < d  A > c < d  A > c < d  A > c < d  A > c < d  A > c < d  A > c < d  A > c < d  A > c < d  A > c < d  A > c < d  A > c < d  A > c < d  A > c < d  A > c < d  A > c < d  A > c < d  A > c < d  A > c < d  A > c < d  A > c < d  A > c < d  A > c < d  A > c < d  A > c < d  A > c < d  A > c < d  A > c < d  A > c < d  A > c < d  A > c < d  A > c < d  A > c < d  A > c < d  A > c < d  A > c < d  A > c < d  A > c < d  A > c < d  A > c < d  A > c < d  A > c < d  A > c < d  A > c < d  A > c < d  A > c < d  A > c < d  A > c < d  A > c < d  A > c < d  A > c < d  A > c < d  A > c < d  A > c < d  A > c < d  A > c < d  A > c < d  A > c < d  A > c < d  A > c < d  A < d  A > c < d  A > c < d  A > c < d  A > c < d  A > c < d  A > c	$\begin{array}{cccccccccccccccccccccccccccccccccccc$

$$\begin{array}{c|c}
 & 2 & \leq \times + \vee \\
\hline
\frac{1}{x} + \frac{1}{y} & 2 & \times + \vee \\
\hline
\frac{1}{x} + \frac{1}{y} & \frac{1}{x} + \frac{1}{y} & \infty \\
\hline
2 & \times + \vee & 2
\end{array}$$

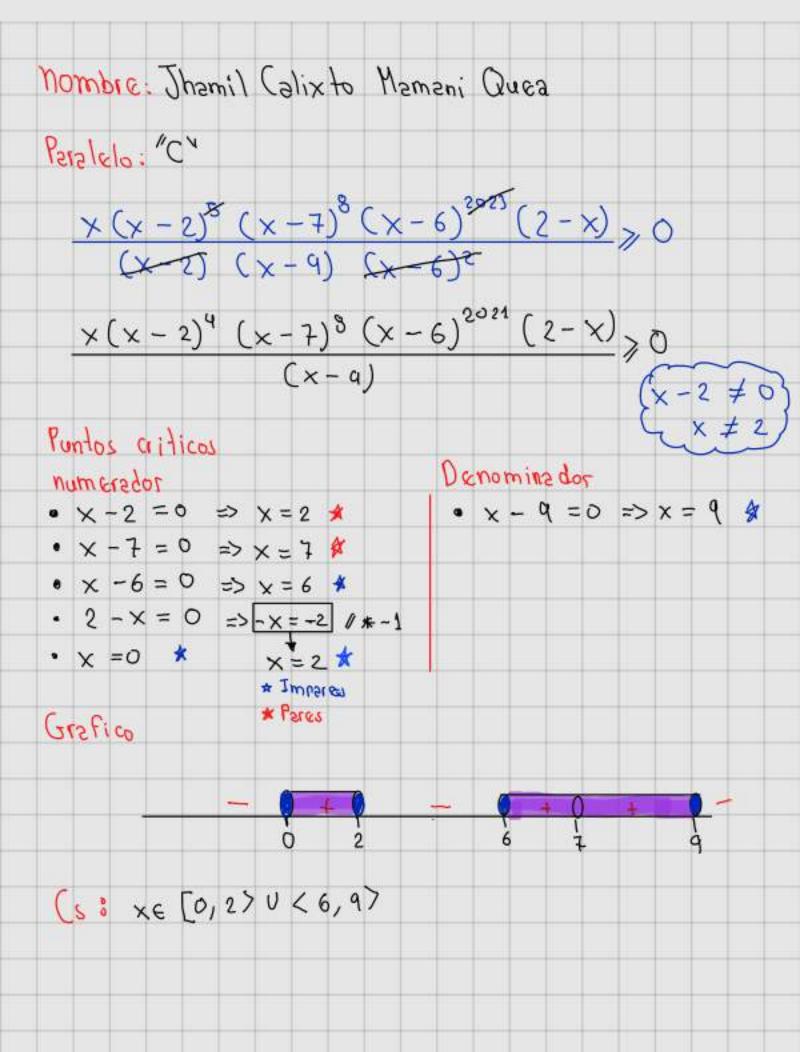
$$\begin{array}{c|c}
 & 2 & \leq \times + \vee \\
\hline
\frac{1}{x} + \frac{1}{y} & \infty \\
\hline
2 & \times + \vee & \infty
\end{array}$$

$$\frac{2}{x+y} \leq \frac{\frac{1}{x} + \frac{1}{y}}{2} \otimes$$

$$\begin{array}{c|c} 0 & 2 & \leq \frac{1}{x} + \frac{1}{2} & \bigcirc \\ \hline x + 2 & \leq & 2 \end{array}$$

Demostración  

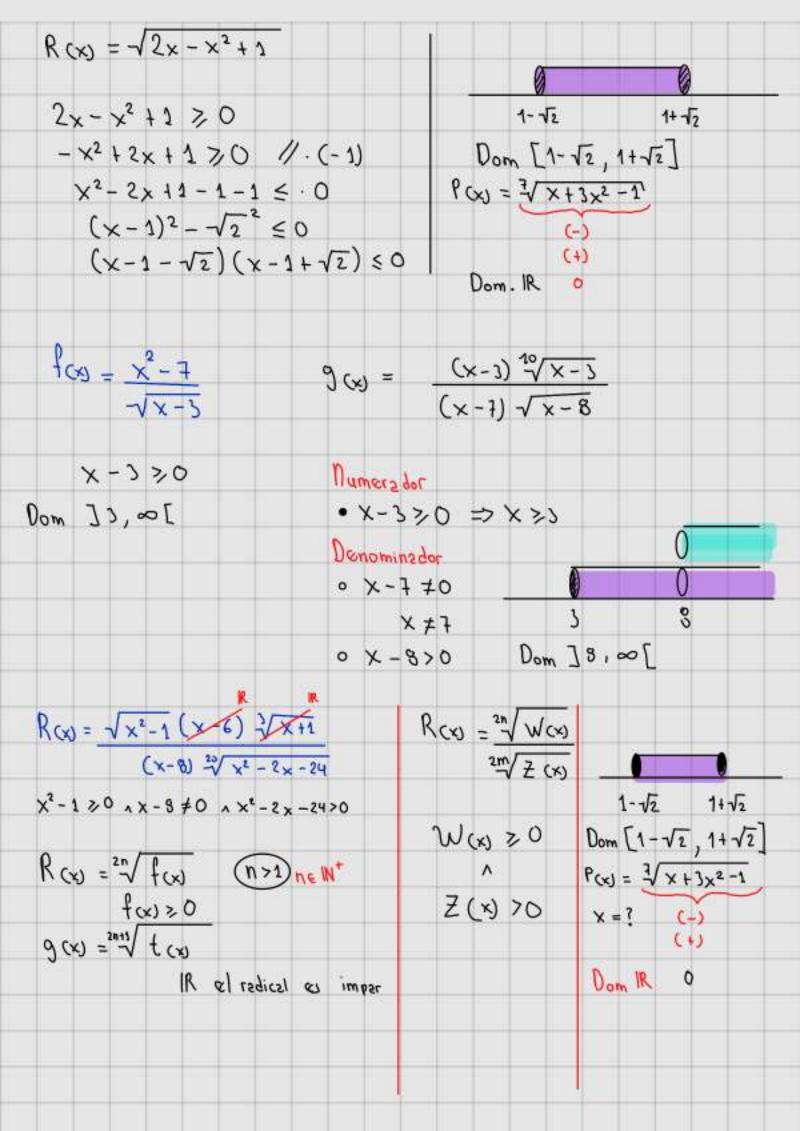
$$\otimes + 3 + \infty$$
  
 $\frac{2}{x+y} + \frac{2}{y+z} + \frac{2}{x+z} \le \frac{1}{2} \left[ \frac{1}{x} + \frac{1}{y} + \frac{1}{y} + \frac{1}{z} + \frac{1}{z} + \frac{1}{z} \right]$ 



Ej Si a² es imar, entonces a es impar VINE(2a+1) = 2a+1 (4-3) (4-2) (4-3) (4-7) 20 (8-3) (8-2) (8-3) (8-7) > 0 s 6 s 1

E) : Demos tize

(i soburg



$$f(x) = x+1$$

$$f(x), f(x), f(x), f(x)$$

$$f(x) = 1, f(x) = -2, f(x) = 101$$

See  $f(x) = 7$ ,  $f(x) = f(x) + f(x) + 3$ 

Determine  $f(x), f(x)$ ,  $f(x)$ 

Solution  $f(x) = f(x)$ 

$$f(x) = -3$$

$$f(x) = -3$$

$$f(x) = -3$$

$$f(x) = -3$$

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

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

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

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

$$f(x) = \frac$$

Heller 
$$f^{-1}(x)$$
 $f(x) = x - 7$ 
 $x - 8$ 
 $f^{-1}(x) = x$ 

Solución:

 $y = \frac{x - 7}{x - 8}$ 
 $y(x - 3) = x - 7$ 
 $y = x - 8$ 
 $y(x - 3) = x - 7$ 
 $y = x - 8$ 
 $y(x - 3) = x - 7$ 
 $y = x - 8$ 
 $y(x - 3) = x - 7$ 
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 $y = x - 8$ 
 $y(x - 3) = x - 7$ 
 $y = x - 8$ 
 $y(x - 3) = x - 7$ 
 $y = x - 1$ 
 $y = x - 1$ 

$$\frac{1}{\sqrt{x+2}} + 1 = \frac{1}{\sqrt{x}}$$

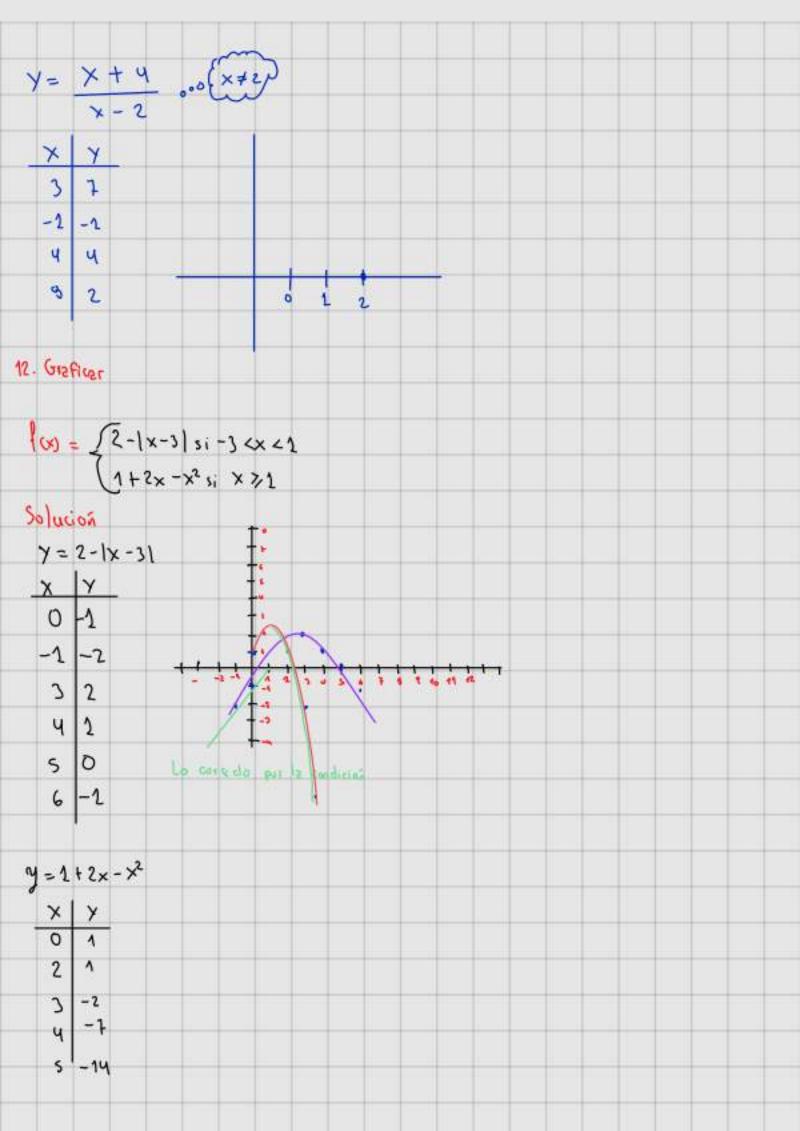
$$\frac{1}{\sqrt{x+2}} + 1 = \frac{1}{\sqrt{x}}$$

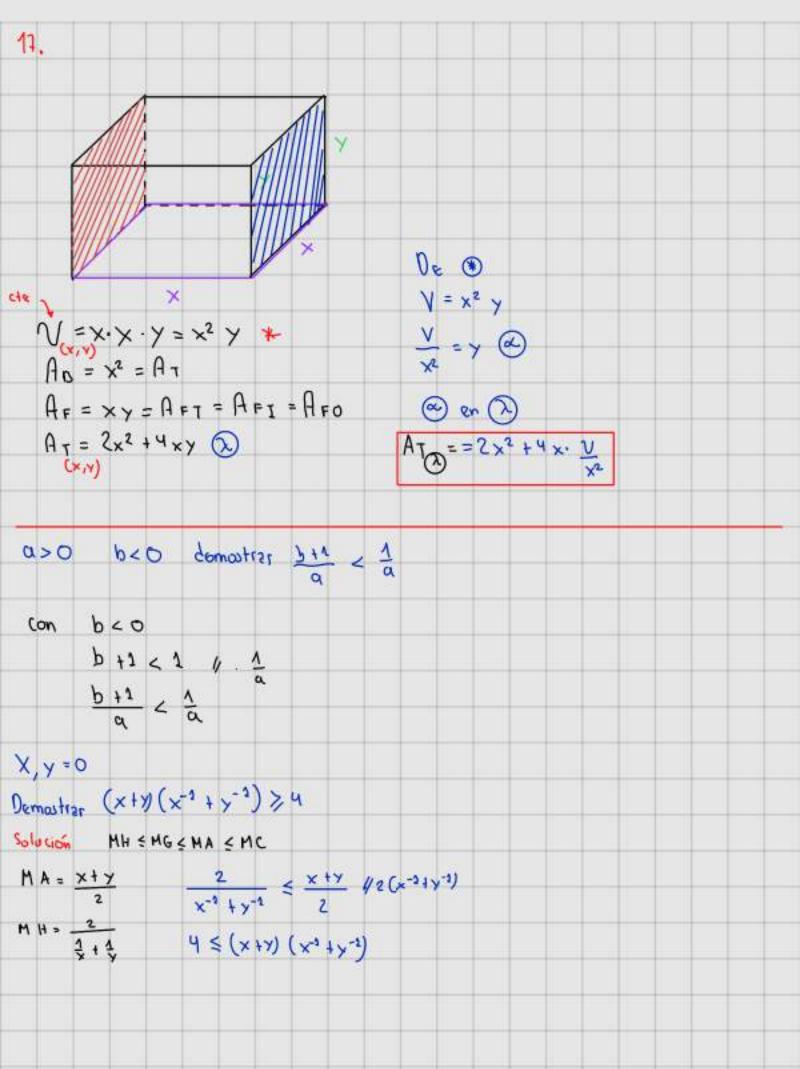
$$\frac{1}{\sqrt{x}} = \frac{x-1}{x-3} \cdot 5en \times$$

$$\frac{1}{\sqrt{x}} = \frac{x}{\sqrt{x}} + \frac{1}{\sqrt{x}}$$

$$\frac{1}{\sqrt{x}} = \frac{x}{\sqrt{x}}$$

$$\frac{1}{\sqrt{x}} = \frac{x}{\sqrt$$





```
: \frac{(x^3+1)(x+3)^5(x-7)^6(x-100)^3}{(x+3)^5(x+3)^5(x-7)^6(x-100)^3}
(x +8)5 (x-7)6 (x-6)4
    (x-100)^{3}(x+1)(x^{2}-x+1)(x+7)^{2}x^{2} \ge 0
   hum Don
  X=-6 X=100
                                -6 + 0 + 0 - 0 - 0 - 0 - 0 + 0 - 0 - 7 8 100
  1-=x & F = X
   x=8 4 x=-7 4
            X=0 4
   \frac{x^2}{x-7} + \frac{x}{x-7} > \frac{u^2}{x-7} \leq \frac{x^6-1}{x-8} \leq 0
   Solución
        \frac{x-3}{X^2} + \frac{x-7}{X} - \frac{7-7}{45} \ge 0 ② (x^3+1)(x^3-1) \le 0
                                  (x+1)(x2-x+1)(x-1)(x2+x+1) <0
       X-1 x-42 30
                                     - 0 + 0 - 0 +
-1 1 5
    (x+7)(x-6) >>0
x-7
0 0 0
0//4//0-(Y*//
-1 -1 1 6 1 8
                                 [5: xe [7,-1] U[1,6] U] 7, 8[
   fcs = 3/x-7 log (x-8)
           20/x2-x-30 (x-4)
    . X = 3>0
    · x2-x-30 >0
    · × 70
```

$$R = \lim_{x \to 0} |x^2 - 4| - |x - 1| - |x - 3| = 0$$

$$|x + 2| - 2|x + 4|$$

$$|x + 2| - 2|x + 4|$$

$$|x + 2| = |x^2 - 4| = |x| = |x + 2|$$

$$|x + 3| = |-(x - 4)| = |x + 2| = |x + 2| = |x + 2|$$

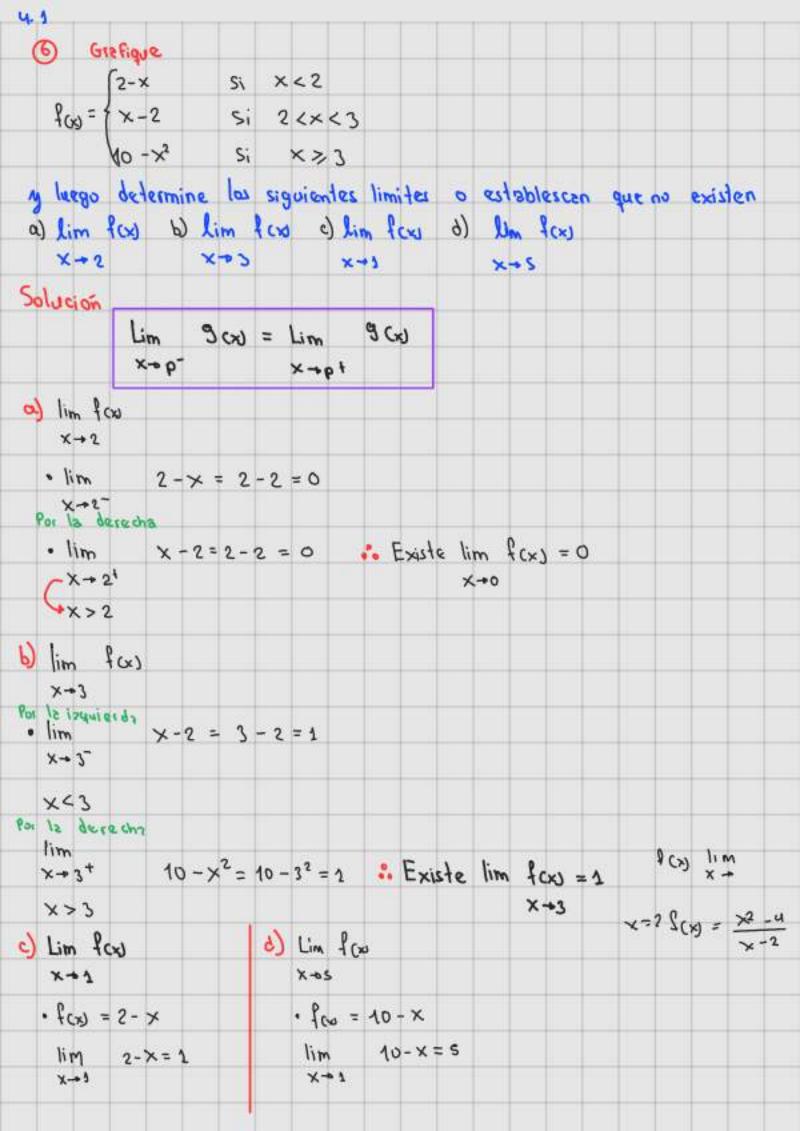
$$|x + 2| = |x + 2| = |x + 2| = |x + 2|$$

$$|x + 4| = |x + 4| = |x + 4|$$

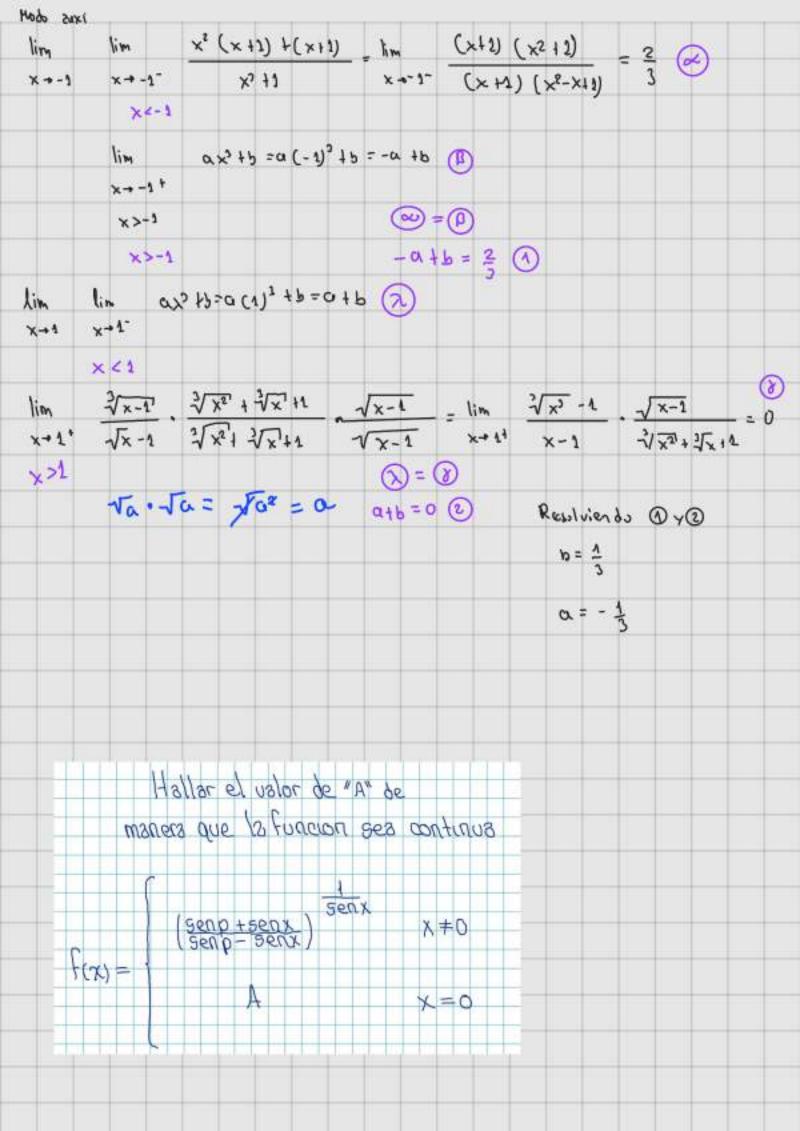
$$|x + 2| - 2|x + 4|$$

$$|x + 3| = |x + 4|$$

$$|x + 4| =$$



In Im Axb = 
$$a(2)+b=2a+b \otimes 2$$
 $x+2$ 
 $x+3$ 
 $x+4$ 
 $x+4$ 



```
Nombre: Themil Colixto Momeni Quea Parolelo: "C"
Halla el valor de "A" de manera que la Función sea continua
   f_{\infty} = \begin{cases} \left(\frac{Sen P + Sen \times}{Sen \times}\right)^{\frac{1}{Sen \times}} & \times \neq 0 \\ Sen P - Sen \times \end{cases}
A \qquad \times = 0
          f(x) f(0) = A
         con x = 0
        Lim (Sen P + Sen x) Senx
        Lim (Sen P + Sen x) Sen x

x→0 (Sen P - Sen x)
          X-0=0
         x-0= P => x= Pto
         Lim
\frac{Sen P + Sen P \cdot Cos(o) + sen(o) \cdot (as P)}{Sen P - Sen P \cdot Cos(o) + sen(o) \cdot (as P)} \frac{1}{Sen(P+o)}
         Lim
P-0 (Semp ((05(0))+Sem(0) - COSP)

Semp ((05(0)-1) + Sem(0) - COSP)
         \lim_{\rho \to 0} \left( \frac{(1 \cdot \cos(\phi)) + \sin(\phi) \cdot \cos\rho}{(1 \cdot \cos(\phi)) + \sin(\phi) \cdot \cos\rho} \right) \frac{2}{\sin \rho \cdot (\cos(\phi) + \sin(\phi) \cdot \cos\rho)}
                (1 \cdot 1) + 0 \cdot 1 0 \cdot 1 + 0 \cdot 1
                      \left(\frac{1+0}{0+0}\right)^{\frac{1}{2}} \stackrel{\infty}{\Longrightarrow} \left(\frac{1}{2}\right)^{\infty} \Longrightarrow \infty^{\infty} \Longrightarrow \infty \implies A = \infty
```

```
Nombre: Thamil Calixto Memani Quea Paralelo: "C"
                        Propiedades "Derivadas"
(a) (a)' = 0
                         (a) =0 a= constante
                        (8) (a) = 0 n = constante
      (2)(a)'=0
      (3) (a) = 0
                        (a) = 0
      (a)'=0
                         (10)(a) = 0
      (5)(a)'=0
      (b)(a)'=0
(2) (1) (a \times^n)' = a(x^n)'
                                        ( (axn) = a(xn)
        (x_n)_{,} = n \times_{\nu-1}
                                          (x_{\nu})_{,} = \nu x_{\nu-1}
                                        (1) (\alpha x^n)' = \alpha (x^n)'
      (2) (a_{x^n})' = a_{(x^n)'}
                                            (x_n)_{,} = u \times_{u-1}
          (x_n)_{,} = u \times_{u-1}
                                         (0 \times n)' = \alpha (\times n)' 
        (0 \times n)' = \alpha (\times n)' 
           (x_n)_{,} = \mu x_{\nu-1}
                                             (x_n), = N \times_{n-1}
                                        (1) (axn) = a(xn)
      ( (axn) = a(xn)
                                            (x_n)_{,} = \mu x_{n-1}
           (x_n)_{,} = u \times_{u-1}
                                        \bigcirc (ax^n)' = a(x^n)'
      (3) (ax^n)' = a(x^n)'
                                             (Xn) = n Xn-1
          (xn), = n xn-1
3
      ( (e^{\times})' = e^{\times}  (e^{\times})' = e^{\times} 
      ( (ex) = ex ( (ex) = ex
      (3) (ex) = ex (8) (ex) = ex
       (ex) = ex (ex) = ex
      (5) (ex) = ex (0) (ex) = ex
(Inx) = 1/x
                                   6 (lnx) = x
                                  \frac{1}{3}(\ln x)' = \frac{1}{x}
\frac{3}{3}(\ln x)' = \frac{1}{x}
\frac{1}{3}(\ln x)' = \frac{1}{x}
\frac{1}{3}(\ln x)' = \frac{1}{x}
      2(lnx) = \frac{1}{x}
      ( lnx)' = 1
```

(a) 
$$\left(\frac{b}{b}\right)' = \frac{b}{b} \cdot d - b \cdot d$$
, (b)  $\left(\frac{d}{b}\right)' = \frac{b}{b} \cdot d$   
(a)  $\left(\frac{d}{b}\right)' = \frac{b}{b} \cdot d - b \cdot d$ , (b)  $\left(\frac{d}{b}\right)' = \frac{b}{b} \cdot d$   
(b)  $\left(\frac{d}{b}\right)' = \frac{b}{b} \cdot d - b \cdot d$ , (c)  $\left(\frac{d}{b}\right)' = \frac{b}{b} \cdot d$   
(c)  $\left(\frac{d}{b}\right)' = \frac{b}{b} \cdot d - b \cdot d$ , (d)  $\left(\frac{d}{b}\right)' = \frac{b}{b} \cdot d$ 

$$\left(3\right)\left(\frac{d}{b}\right) = \frac{d_5}{b_1d - bd_1}$$

(a) 
$$(b \cdot d)$$
, =  $b$ ,  $d + bd$ ,  $d$ 

$$(0)\left(\frac{d}{b}\right) = \frac{d_s}{b_1d - bd_1}$$

$$\left(\frac{d}{b}\right) = \frac{d_5}{b_1 d - b d_1}$$

$$\bigoplus \left(\frac{d}{b}\right)_{1} = \frac{d_{5}}{b_{1}d - bd_{1}}$$

$$\mathbb{Q}\left(\frac{d}{b}\right)_{1} = \frac{d_{5}}{b, d-b d_{1}}$$

$$(b \cdot d)_{,} = b_{,}d + bd_{,}$$
  
 $(b \cdot d)_{,} = b_{,}d + bd_{,}$ 

10 (arc tan x)' = 
$$\frac{1}{x^2+1}$$
 (arc tan x)' =  $\frac{1}{x^2+1}$  (arc tan x)'

(15) (1) (arc (sc x)) = 
$$-\frac{1}{x - \sqrt{x^2 - 1}}$$

(2) (arc (sc x)' = 
$$-$$
 1  $\times \sqrt{x^2-1}$ '

(arc 
$$(sc \times)' = -\frac{1}{x \cdot \sqrt{x^2 - 1}}$$

$$(3) (arc (sc x))' = -\frac{1}{x \sqrt{x^2-1}}$$

(3) (arc (sc x)' = 
$$-$$
 1  $\times \sqrt{x^2-1}$ 

(arc 
$$(sc \times)' = -$$
 1

R= 
$$\lim_{x\to 0} \frac{|x^2-4|-|x-1|-|x-3|}{|x+2|-2|x+1|}$$
  
eveluendo
$$\frac{|0^2-4|-|0-1|-|0-3|}{|0+2|-2|0+1|}$$

$$\frac{|4-1-3|}{|2-2|} = \frac{0}{0}$$

$$\frac{|x^2-4|-|x-1|-|x-3|}{|x+2|-2|x+1|}$$

$$\frac{|x^2-4|-|x-1|-|x-3|}{|x-2|=-(x-1)=-x+1}$$

$$\frac{|x^2-4|-|x-1|-|x-3|}{|x+2|-2|x+1|}$$

$$\frac{|x^2-4|-|x-1|-|x-3|}{|x+2|-2|x+1|}$$

$$\frac{|x^2-4|-|x-1|-|x-3|}{|x+2|-2|x+1|}$$

$$\frac{|x^2-4|-|x-1|-|x-3|}{|x+2|-2|x+1|}$$

$$\frac{|x^2-4|-|x-1|-|x-3|}{|x+2|-2|x+1|}$$

$$\frac{|x^2-4|-|x-1|-|x-3|}{|x+2|-2|x+1|}$$

$$\frac{|x^2-4|-|x-1|-|x-3|}{|x+2|-2|x+1|}$$

$$\frac{|x+2|-2|x+1}{|x-3|-2|x+1|}$$

$$\frac{|x+2|-2|x+1}{|x-3|-2|x+1|}$$

$$\frac{|x+2|-2|x+1}{|x-3|-2|x+1|}$$

$$\frac{|x+2|-2|x+1}{|x-3|-2|x+1|}$$

$$\frac{|x+2|-2|x+1}{|x-3|-2|x+1}$$

$$\frac{|x+3|-2|x+1}{|x-3|-2|x+1}$$

$$\frac{|x+3|-2|x+1}{|x-3|-2|x+1}$$

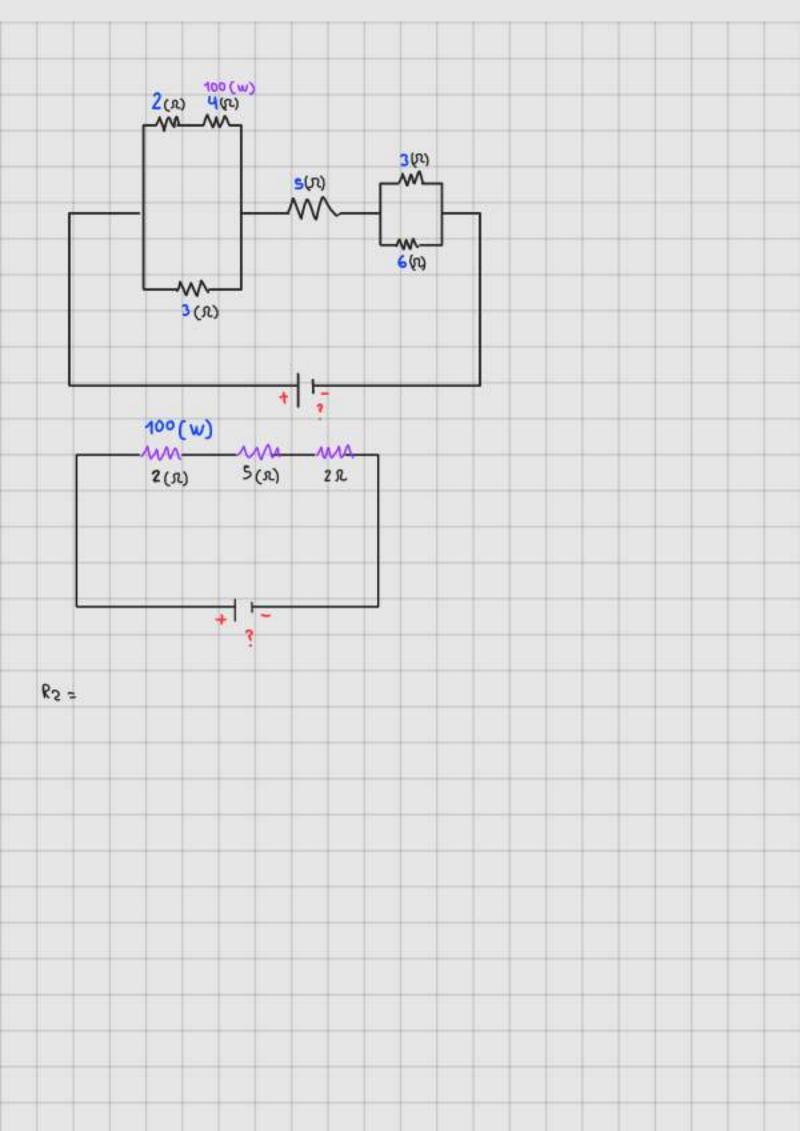
$$\frac{|x+3|-2|x+1}{|x-3|-2|x+1}$$

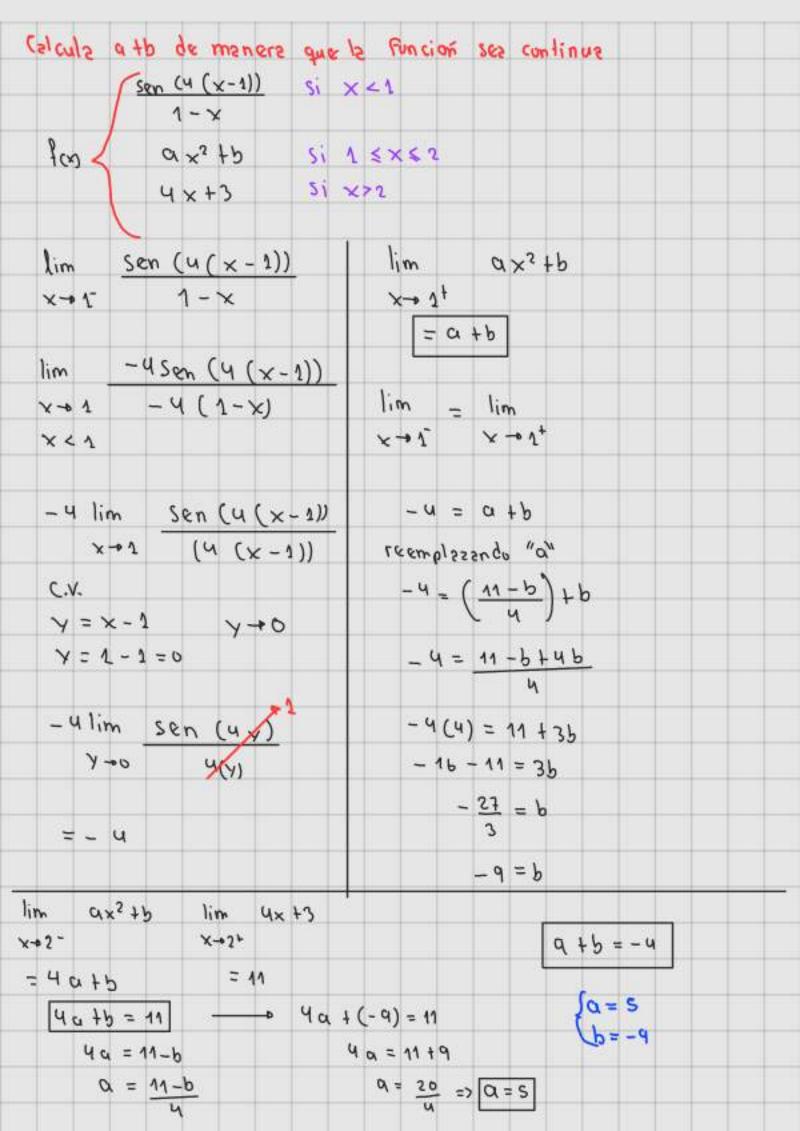
$$\frac{|x+3|-2|x+1}{|x-3|-2|x+1}$$

$$\frac{|x+3|-2|x+1}{|x-3|-2|x+1}$$

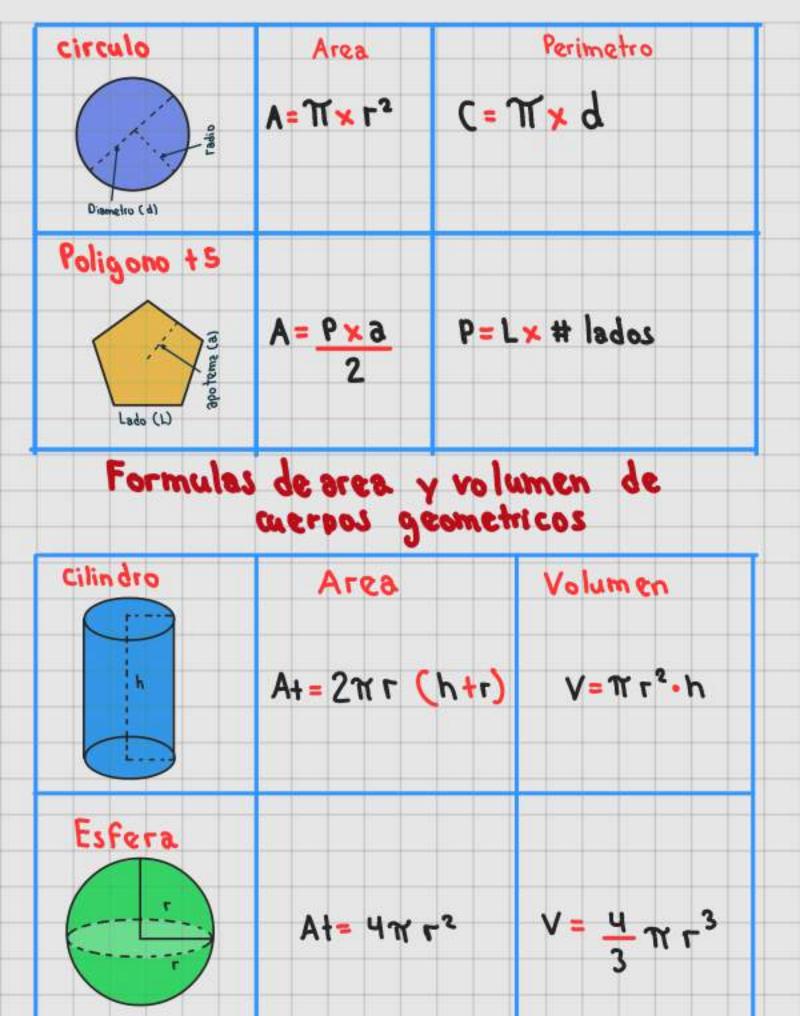
$$\frac{|x+3|-2|x+1}{|x-3|-2|x+1}$$

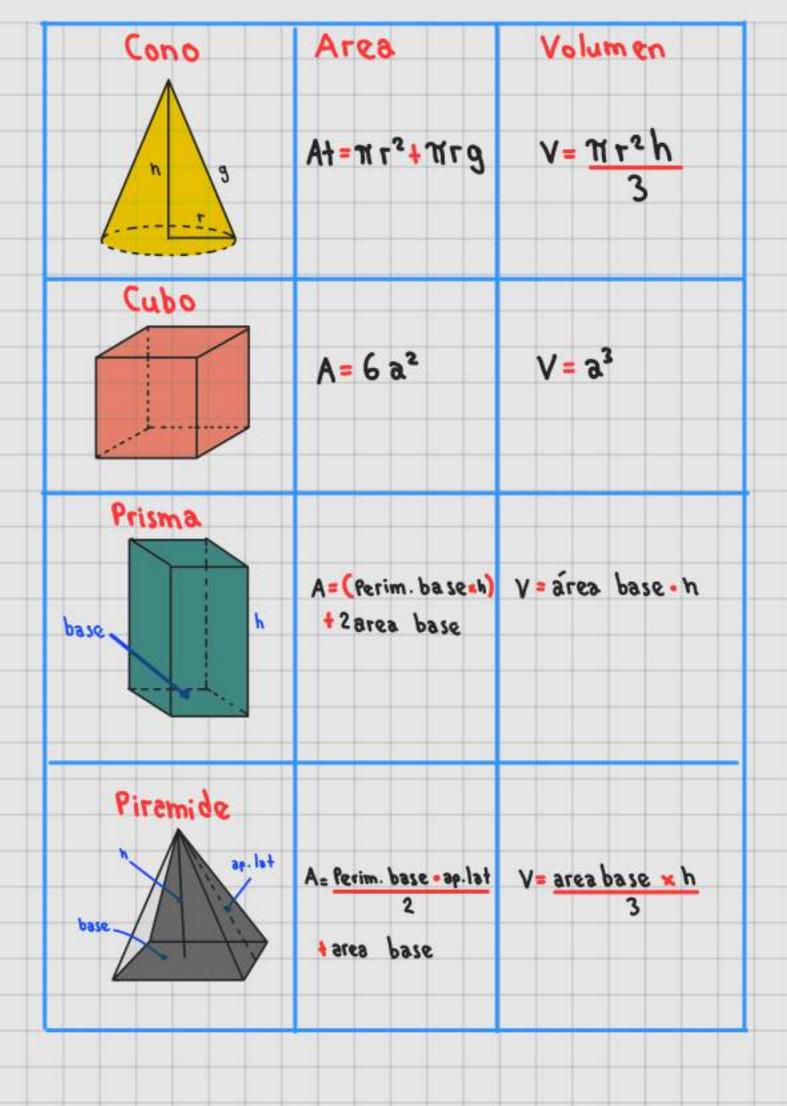
```
Nombre: Thamil Calixto Mamani Quea Paralelo: "C"
Definición:
Lim fox = L ←> Y € >0 3 8>0 10 <1x-21 < 8 ⇒1fox - L1 < €
X+a
Demostrer pur definicion el siguiente limite
\lim_{x \to 2} (x^2 + 3x + 2) = 12
X+2
€70,8>0 OKIX-21<8 => (x2+3x+2)-1214€
1 x2 +3x -101 < E X0 = 2
                            1x-21<1
1 (x+5) (x-2) 1 < E
                                   -1 <x-2 <1 /+7
1 x+511x-21<E
                                  -1+7 <x-2+7 <1+7
                                     6 LX+5 L8
                                    1x+51<8
                      X+5 & 8 -
1×+511x-21<E
  8 1x-21< E/+8
    1x-21 < E/8
    8 = min (1, E/B)
    0<1x-21<8
     => 1x-21 < $ /1x+51
     => 1x - 21 1x+51 < 1x+51. 8
     =) | (x-2) (x+5) |< 1 x +51 · 8
     => 1 x2 +3 x - 101 < 8. 8
      => 1x2 +3x +2 -121 < 8. E
     => 1 (x2+3x+2) -121 < E
      => | f(x) - L | < E
```











o : "C"	1
x fal da	
nlm 592 10	nm3
×)2	
-x)'(-1)	
-×)	
2×	
(-1)	

	+								
	-								
	-								
	-								
	-	-							
	-								
	-	 							
	-								