

I NECUACIONES I

- DESIGUAL DAD:

ケノングン

-CONJUNCE SOLUCIÓN:

-INTERVALO (PORCIÓN RECTA)

(E; L-): 079318A . I-L (>1<) INFINITO 6: QLXLb

4 -4 OHIHHHHO >

2- I. CERRADO: [-5:7] Siz

· PROPIEDADES, , OPERACIONES

11- axb , bxc =>axc, axbxc

2- 02 > 0 => a ER

3- a240 => a e b

4- alb acto

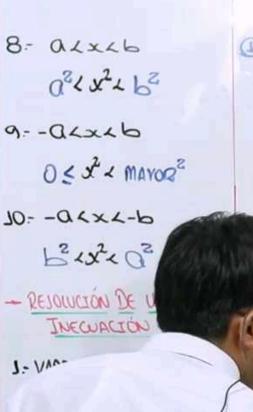
=>-b<-a; bc < ac

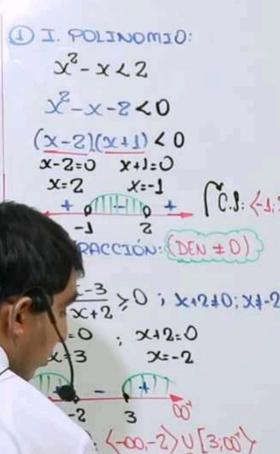
5- acb => = < 1

=>-b1-x1-a

7: QLXLb

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INECUACIONES I

→ DESIGUAL DAD

ケノングリ

-CONZUNTO

-INTERU (PORCIÓN REC

J. J. I. AAT

· PROPIEDADES, , OPERACIONES

-> a < b , b < c => a < c , a < b < c

2- a2>0 => a ER

·3- a240 => a e 6

4- aLb (CLO)

=>-bK-a; becas

5- acb => = < =

JIXTP

-x 1-a

P

7 3

021 x27 P2

9-- acxcb

70 - - OKXK-P

PSTXTOS

- REJOULTON DE UNA THECHACION

DE LA JNEWACZÓN (+)

2- FACTORIZAMOS

3. PUNTOS CRITICOS EN LA RECTA REAL T. SOTINOWIO:

x-x-2<0

(x-s)(x+1) < 0

x-2=0 x+1=0

x=2 x=-1 (C.J: <-1:2

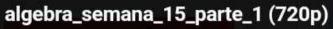
2 I. FRACCIÓN: (DEN +0)

 $\frac{x+5}{x-3} > 0$; x+5+0; x+5

X-3=0 , X12=0 X=3 X=-2

-0 -2 3 W

C.S: (-00-5) U[3:00)

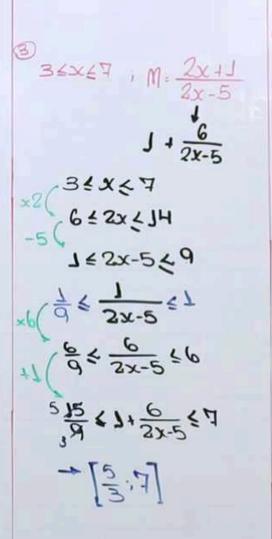


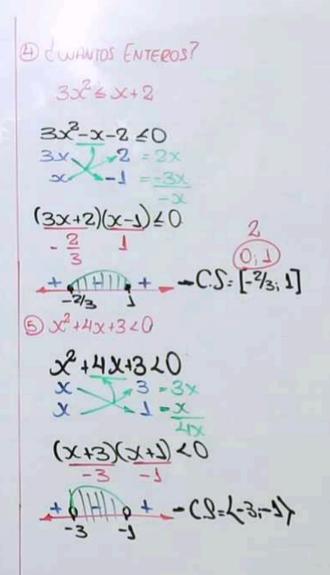


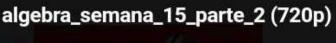
$$\frac{1}{23} \le \frac{1}{5x+3} \le \frac{1}{8}$$

-0=13; b=8

$$\frac{3}{3} = \frac{3}{3} + \frac{4}{3} + \frac{2}{3} = \frac{2}{3} = \frac{2}{3} + \frac{2}{3} = \frac{2}$$

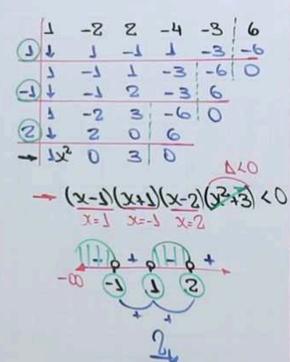


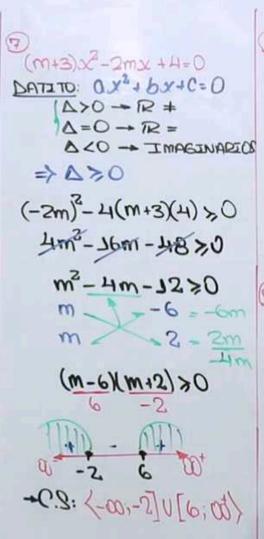


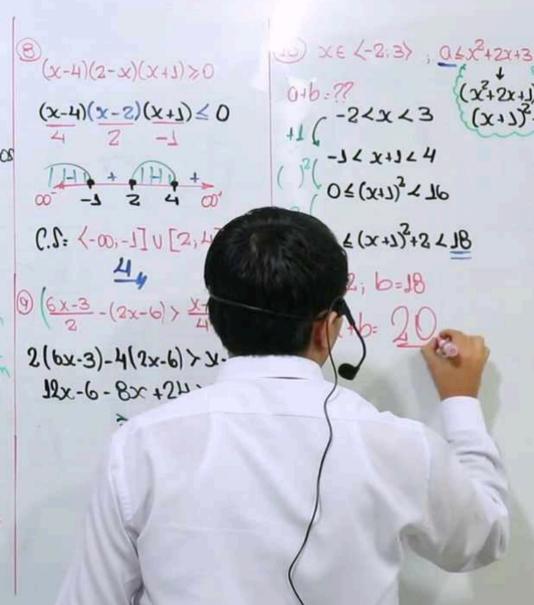


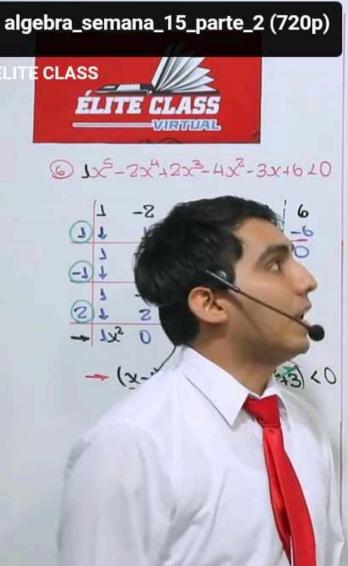


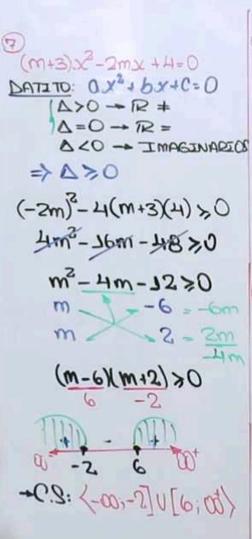
6 Jx5-2x4+2x3-4x2-3x+610

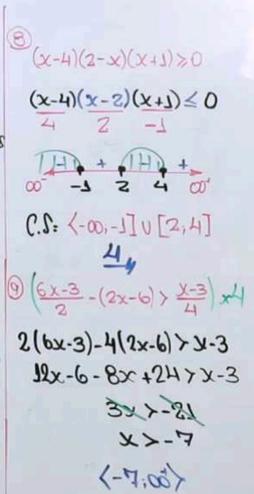


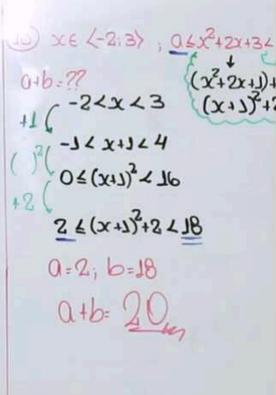














$\begin{array}{c|c} 1 & 4x + 3x - 2 \\ \hline 5 & 3x - 2 \end{array}$

3(4x+1)>5(3x-2) 12x+3>15x-10 13>3x

X < E

6.8: \(-\omega \frac{3}{13} \)

COMPLEMENTO:

 $\left[\frac{13}{3}, \infty^4\right)$

2x² - 2mx - n 404 x \(\xi\) \(\zeta\) -3,5\(\zeta\)

(x+3)(x-5) < 0 $x^2-2x-15 < 0$

2x2-4x-30 < 0

2m=5 5m=7 +5mx=+7x

1 +0=+30

n=30

=>M:N=60

= <1-x+3 < = = $-\frac{1}{3} \angle -\frac{2}{8+3} \angle -\frac{2}{9}$ 2 × 2 × 1 3)=2 青く立るへ音 6 XX+3 L 9. 3 L X L 6 C.S: (3:6)

(X+1 + 2 + 2 x x + 2)

-m.C.m (4; 2;3)=12

3x +12L6x-30L4x+24

3×+12 × 6×-30

6x-30 < 4x+24 2x < 54 x < 27

JHLX L 27

×26,

 $(7-x)(x-3)(x_5+7) > 0$



3 4 X+3 4 9 9 3 <1- 2 < 7 -1 2 - 2 x+3 1 - 2 9 $\frac{2}{9} < \frac{2}{x+3} < \frac{1}{3}$ \$ 4 \frac{1}{\text{X+3}} \langle \frac{1}{6} 6 LX+3 L 9 7-3 3 L X L 6 C.S: (3:6)

(x+1-x=12) → m.C.m (4; 2;3)=12 3x +12L6x-30L4x+24 3x412 L 6x-30 4243x JULX 6x-30 < 4x+24 2x L54 X427 J44X L24

 $\frac{(7-x)(x-3)(x-3)(x-1) \times 0}{(x-7)(x-3)(x-1) \times 0}$ $\frac{7}{7} = \frac{3}{7} = \frac{3}{7} \times 0$ $(7-x)(x-3)(x-3)(x-1) \times 0$ $(7-x)(x-3)(x-3)(x-1) \times 0$ $(7-x)(x-3)(x-3)(x-1) \times 0$

2x-5Lx+3L3x-7
2x-5Lx+3
xL8
x+3L3x-7
1012x
5Lx

SLXLB



 $(x^{2}+9)(x^{2}+25)(x^{2}-9) \le 0$ $(x^{2}+7)(x^{2}+25)(x+3)(x+3) \le 0$ $(x+3)(x+3) \le 0$



C.S:[-3;3]

 $x^{2}-x+6|(x^{2}-x-6)(x-1)^{2}(x-1)^{6}\leq 0$ $x^{2}-x-6\leq 0$

 $(x-3)(x+2) \neq 0$

+ 1111 +

X-J= 0

X+4=0 X=-4

CS=[-2,3] Uh-4/

 $(3x+1)^{2}(x+2)^{2}(x+5)^{3}(x+2)^{4}(4-x) \neq 0$

(3x+1)(x+5)(4-x) £0

 $(3x+1)(x+5)(x-4) \ge 0$

-5 -3 -4 00

X-2=0 X=2

(1): [-5:-1] U [4:00] uhzh

 $\frac{20}{(x-1)(x+2)} > 0$ $\frac{2}{x-5} > 0$ $\frac{-0}{5} = 0$