□CON 20 Log (2x-1) 1+ Log (x-1) 10 1081 = 17 24. Sea n 2012x-1)+10/20 201x-1)=n Luego, la POR PROPIEDNO = Y (a) \sqrt{12} + b) $\sqrt{15} + n \log(2x-1) + n \log(x-1) = n$ $c)^{\sqrt{12}-}$ $d) \sqrt{15}$ e) 1/2. Log(2x-1) + Log(x-1) = 47 25. El fi dog(2x-1)(x-1)=1 (2x-1)(x-1)=10 $2x^2 - 2x - x + 1 = 10$ es: 2×2-3×-9=0 A) B) 1 C) DY (2x+3)(x-3)=0E) X==3 1 X=3 26. Ha * PARD X=-3/2 (2x-1)-52(=3)-1=-4 No comple * PARD X=3 12x-1)-2(3)-1=5>0 Para X=3 es la inuco Solución valido

 $(x+a)(x+b) = x^2 + (a+b)x + ab$

E = 2

a) -5

d) 1

 $x^2 - 1$

Pode

a) No

b) X 4

c) x 2

d)x

e) x .

c) < -00

d)[-2;

e)[-2;

18. Indiq

16. Al re

c. [2,5]
$$\sqrt{(x^2+21x+98)(5)} = \sqrt{2}$$
 $\sqrt{(x^2+21x+98)(5)} = \sqrt{2}$

e.
$$[8,10]$$
 $X^2+21X+98=144$

2. Resolver :
$$X^2 + 21x - 46 = 0$$

$$7 \le \frac{1}{2x-3} \le 8$$
17. Resolve

entonces se cumple
$$(x+23)(x-2)=0$$
 a) < 0;
a) $x \in \left(\frac{25}{16}; \frac{11}{17}\right] \quad x = -23 \quad x = 2$ b) $[-2; \frac{1}{16}; \frac{1}{17}] \quad REENPLARANDO: 0 < -\infty$

b)
$$x \in \left(\frac{25}{16}; \frac{17}{11}\right] PARA X = -23$$

$$\lambda_{x} = \left(\frac{25}{16}; \frac{11}{7}\right) \sqrt{-23+14} = \sqrt{-9}$$

d)
$$x \in \left(\frac{25}{16}, \frac{11}{7}\right)$$
 is Elamics valor es 2

e)
$$x \in \left[\frac{25}{16}; \frac{11}{7}\right)$$

7) = 70

5 x2+2x+a > 10 x2+2x+a-10>0

1: b2-4ac 22-4(1)(0-10) 4-40+40 44-40<0

Conga raices reales.

00 a 2 11/

® R1=1-√3 Entonce, R2=1+√3

 $(X-R_1)(X-R_2)=0$

 $(x-(1-\sqrt{3}))(x-(1+\sqrt{3}))=0$

2-X(1+V3)-X(1-13)+(1-13)(1+13)

X-X-XXX3-X+X1-3

x2-2x-2 =0

6 $2x^2+bx-15=0$ $2(-t)^2+b(-5)-15=0$ 50-5b-15=035=b-b=7

 $(x = -b \pm \sqrt{b^2 - 4ac})$

X=-b±162-4ac

X= 5+V1-5124 -> 5+V21 2 X-5-V21

X2= 5- J21

9+121 + 9-121

9+121 9-121

2(9-121)+2(9+121) 9-121+9+121 80

X = 3 /

CICLO INTENSIVO 2024 11

x" cumple

$$+ \log^2 2 + \log^3 2 + ...$$

b) 5 c) 7
e) 9 $= 2^2 - 8 - 2 + 2 + 8$
 $= 6$ $= \frac{18}{2} - \frac{2}{3} + \frac{8}{3} = \frac{2}{3} + \frac{8}{3} = \frac{2}{3} + \frac{2}{3} + \frac{2}{3} = \frac{2}{3} + \frac{2}{3} = \frac{2}{3} + \frac{2}{3} = \frac{2}{3} + \frac{2}{3} = \frac{2}{3} = \frac{2}{3} + \frac{2}{3} = \frac{2}{3}$

de: (log₂ 3 +1), es

que la 30. El equivalente de: cologo antilogo (logo 3+1), es a) 8 b) -4 c) 6 c) 6 c) 7 c) 8 de
$$10^{(5-x)^3} = 10^{(35-x^3)} = 10^{(35-x^3)} = 10^{(35-x^3)} = 10^{(3-3)^3$$

r la inecuación: 33 < 0 afirmar que: e solución real /10 (21) Jog x = -0,25 $\frac{-x}{x} \le x^{-(81)} = x$ (2)(4) = X U[1;+00> (34)(4)=X [1;+0> ·: X=3] l intervalo solución de

DICEBET UN

3 5(3 x-4) - 8(2x+1) 11 - 3(2x+1)(5x-4

11x-20-16x-8=+3/6x2-8x+3x-9

-x-28x11 -48x2+ 17x+12 6x2-1x, 1

D: 62-400

(-8)2=4(1)(n)

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18x-16x-40=0 0/18

9x2-8x-20 x0

x=2 thayou

2(3) = 6

9x+10/(x-2)=0

(4) A= B-40C

hy2-(2n+5)x+n+3=0

(-(2n+5)=4(n)(n+3)

MX-24x +m-+0

4xx+20n+25-4x-120

(4) A = 13-40C hx2-(21)+5)×+n+3=0 (- (27+5))3 4(n7(n+3)= 4n2+20n+25-4n2-12n 811+25 tiens vaices complejons 8n+25 <0 8n<-25

+n+3=0 Mx - 24x + m-7-0 4(n)(n+3)= - 412-12m 1=0 (-24)2-4(m/(m-1) omplejas (-24)= 4(m2-7m) (-24) = (2m) = 28 m (2M)-28m-(-24)2 4m²-28m-576 m2 - 7m - 144 (m-16)(m+9) M516 1(M=-9)