$$t = \left(\frac{3}{5}\right)^{x}$$

$$\left(\frac{9}{25}\right)^{x} = \left[\left(\frac{3}{5}\right)^{2}\right]^{x}$$

$$= \left[\left(\frac{3}{5}\right)^{x}\right]^{2} = t^{2}$$

$$9\left(\frac{2}{3}\right)^{x} + 2 + 4\left(\frac{2}{3}\right)^{-x} \le 0$$

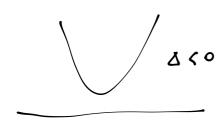
[impossibile]

$$t = \left(\frac{2}{3}\right)^{x}$$

$$9t + 2 + \frac{4}{t} < 0$$

$$\frac{9t^2+2t+4}{\sum_{\text{Posso PERMÉ}} \xi 0}$$

$$9t^{2} + 2t + 4 \le 0$$
 IMPOSSIBILE
 $\frac{\Delta}{4} = 1^{2} - 36 = -35$



292
$$5^{\frac{2}{x}} - \frac{26}{25} 5^{\frac{1}{x}} > -\frac{1}{25} \quad \left[-\frac{1}{2} < x < 0 \lor x > 0 \right]$$

$$t^2 - \frac{26}{25}t > -\frac{1}{25}$$

$$\frac{\triangle}{4} = 169 - 75 = 144$$

$$t = \frac{13 \pm 12}{25} = \frac{1}{1}$$

$$t < \frac{1}{25} V + > 1$$

$$5^{1/2} < 5^{-2} \qquad 5^{1/2} > 5^{\circ}$$

$$\frac{1}{x} < -2$$
 $\frac{1}{x} > 0$

$$\frac{1}{x}$$
 + 2 < 0

$$-\frac{1}{2} < X < 0$$

$$[x < 0 \lor 1 < x < 2]$$

$$\frac{-6}{t-2} + \frac{9}{t-1} < 0$$

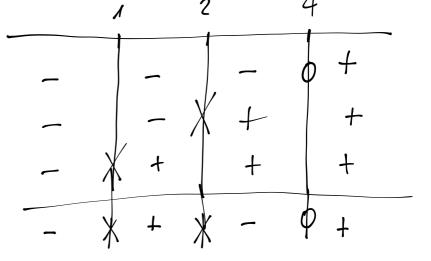
$$\frac{-6(t-1)+9(t-2)}{(t-2)(t-1)}$$

$$\frac{-6t+6+3t-18}{(t-2)(t-1)} < 0$$

$$\frac{3t - 12}{(t-2)(t-1)}$$

$$\frac{3(t-4)^{N_4}}{(t-2)(t-1)} < 0$$
D₄

$$N_1$$
 t-4>0 t>4
 D_1 t-2>0 t>2
 D_2 t-1>0 t>1



$$t < 1 \quad V \quad 2 < t < 4$$
 $2^{*} < 1 \quad V \quad 2 < 2^{*} < 4$
 $x < 0 \quad V \quad 1 < x < 2$

$$\frac{N}{\frac{3 \cdot 3^{2x} - 4 \cdot 4^{2x}}{|-1 + 5^{x+1}| - 4}} < 0 \qquad \left[x < -\frac{1}{2} \lor x > 0 \right]$$

$$N > 0 \qquad 3 \cdot 3^{2x} - 4 \cdot 4^{2x} > 0$$

$$3 \cdot 3^{2x} > 4 \cdot 4^{2x}$$

$$\frac{3^{2x}}{4^{2x}} > \frac{4}{3} \qquad \left(\frac{3}{4}\right)^{2x} > \left(\frac{3}{4}\right)^{-1} \qquad 2 \times \langle -1 \rangle$$

$$\times \langle -\frac{1}{2} \rangle$$

D>0
$$\left|-1+5^{x+1}\right|-4>0$$
 $\left|f(x)\right|>K$ $\left|5^{x+1}-1\right|>4$ $f(x)<-K \lor f(x)>K$ $5^{x+1}-1<-4 \lor 5^{x+1}-1>4$

$$5^{\times +1} < -3$$
 $5^{\times +1} > 5$

1MPSS. $\times +1 > 1$