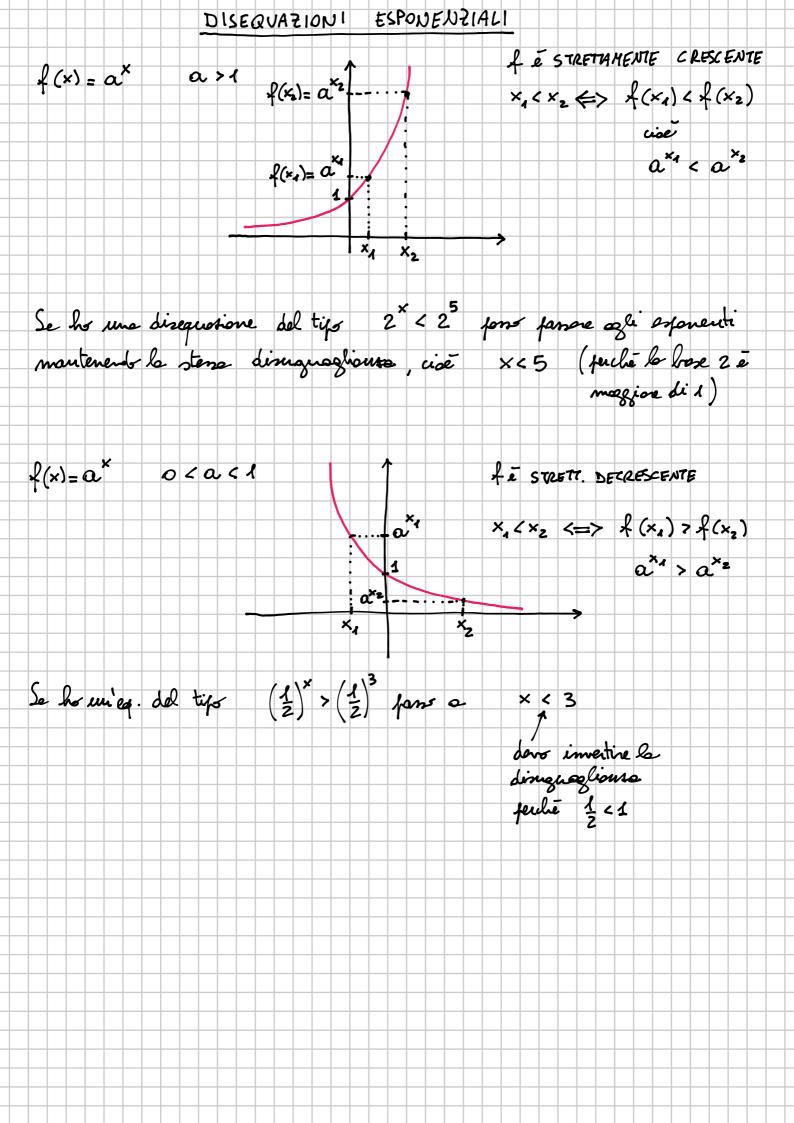
$$\begin{array}{c} \times -1 = -\frac{\times -1}{\times} \\ \times$$

 $[\pm 1]$



$$\left(\frac{3}{2}\right)^x < \frac{8}{27}$$

$$\left(\frac{3}{2}\right)^{\times} \left\langle \left(\frac{2}{3}\right)^{3}\right\rangle$$

$$\left(\frac{3}{2}\right)^{\times} < \left(\frac{3}{2}\right)^{-3}$$

$$5^{x^2-1} > \left(\frac{1}{5}\right)^{3x+1}$$

ALTERNATIVA

$$[x < -3 \lor x > 0]$$

288
$$34\left(\frac{3}{5}\right)^x < 25\left(\frac{9}{25}\right)^x + 9$$

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

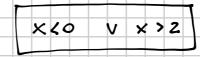
t = (3)x

$$34\left(\frac{3}{5}\right)^{x} < 25\left(\frac{3}{5}\right)^{2x} + 9$$

$$\frac{\triangle}{4} = 289 - 225 = 64$$

$$\binom{3}{5}^{\times} \langle \frac{9}{25} \rangle \vee \left(\frac{3}{5}\right)^{\times} \rangle 1$$

$$\left(\frac{3}{5}\right)^{\times} < \left(\frac{3}{5}\right)^{2} \lor \left(\frac{3}{5}\right)^{\times} > \left(\frac{3}{5}\right)^{\circ}$$



$$\frac{294}{2^{x}-2} + \frac{9}{2^{x}-1} < 0 \qquad [x < 0 \lor 1 < x < 2]$$

$$\frac{2^{x}}{t-2} = t$$

$$\frac{-6}{t-2} + \frac{9}{t-4} < 0$$

$$\frac{-6(t-4)+3(t-2)}{(t-2)(t-4)} < 0$$

$$\frac{-6t+6+3t-48}{(t-2)(t-4)} < 0$$

$$\frac{3t-42}{(t-2)(t-4)} < 0$$

9(
$$\frac{2}{3}$$
)* + 2 + 4($\frac{2}{3}$)* \leq 0 [impossibile] ($\frac{2}{3}$)* = t

9t + 2 + 4t - 4 \leq 0

3t + 2 + 4 \leq 0

WIM. 3t*+2t + 4 \leq 0

ben. + + + +

DEN. + > 0

DEN. + > 0

L > 0

DEN. - # +

 $(\frac{2}{3})^{\times} = t$

0

WHPOSSIBILE

OSSEPTIVAZIONE

Doto & disequentione 9t*+2t+4 \leq 0, doto the $t = (\frac{2}{3})^{\times} > 0$ $\forall \times$, form semplificate if denominatione => $3t^{2} + 2t + 4 \leq 0$

Risolverdo, dato che D40,

trovo omoro IMPOSSIBILE

