C.E. resure!

$$|8^{x}-2|=\sqrt{2^{3x}}$$

sempre position (Vx)

$$\begin{cases} f(x) = \pm g(x) \\ g(x) > 0 \end{cases}$$

IN GENERALE

$$(8^{\times}-2)^2=2^{3\times}$$

$$(8^{\times} - 2)^2 = 8^{\times}$$

$$(t-2)^2=t$$

$$t^2 - 5t + 4 = 0$$
  $t = 4 \rightarrow 8^{\times} = 4$ 

$$(t-4)(t-1) = 0$$
 $t=1 \rightarrow 8^* = 1$ 

$$2^{3x} = 2^2$$

8 = 4

$$x = \frac{2}{3}$$

$$\times = 0 \quad \forall \quad \times = \frac{2}{3}$$

$$|f(x)| = g(x)$$

$$|f(x)| = g(x)$$

$$|f(x)| = g^{2}(x)$$

$$g^{\kappa} = t$$

18.534 N 257

$$\begin{cases} 3^{x} + 3^{y} = 10 \\ 3^{x+1} - 3^{y} = -6 \end{cases} \qquad \begin{cases} 3^{3} = 10 - 3^{x} \\ 3^{x+1} - 10 + 3^{x} = -6 \end{cases}$$

$$3 \cdot 3^{\times} + 3^{\times} = 4 \longrightarrow 3^{\times} (3+1) = 4$$

$$4 \cdot 3^{\times} = 4$$

$$3^{\times} = 4$$

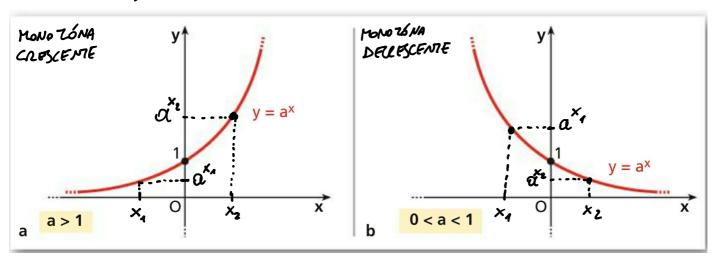
$$3^{\times} = 1 \rightarrow \times = 0$$

$$3^{\circ} = 10 - 1$$

$$3^{\circ} = 9$$

$$\begin{cases} X = 0 \\ y = 2 \end{cases} \qquad (0, 2)$$

## ESPONENTIALI DISTQUAZION



OPPURE

$$x_1 < x_2 \iff a^{x_1} < a^{x_2}$$

$$2^{\times} < 2^{3} \rightarrow \times < 3$$

ferché la lose é > 1

$$2 > 1$$

$$\times_{4} \langle \times_{2} \langle \rightleftharpoons \rangle \alpha^{\times_{4}} > \alpha^{\times_{2}}$$

$$\left(\frac{1}{2}\right)^{\times} < \left(\frac{1}{2}\right)^{3} \rightarrow \times > 3$$

$$\frac{\text{ferh}^{-} \text{ be lose $\bar{z}$ compress}}{\text{he 0 2 1}}$$

$$\frac{1}{2} < \frac{1}{2} < 1$$

$$\frac{18.535 \times 275}{\left(\frac{1}{5}\right)^{2} \times 1} < 625$$

$$\left(\frac{1}{5}\right)^{2\times14} < 625$$

$$\left(\frac{1}{5}\right)^{2\times +1} < \left(\frac{1}{5}\right)^{-4}$$

$$2 \times > -5$$

$$\boxed{\times > -\frac{5}{2}}$$

$$5^{-2x-1} < 5^{4}$$

$$\sqrt{5^{86xane}}$$

$$-2x-1 < 4$$

$$-2x < 5$$

$$\left( \times > -\frac{5}{2} \right)$$

$$2 \cdot 3^{2x-1} + 9^{x+1} - 3^{2x+1} \le \frac{60}{5\sqrt{3}}$$

$$2 \cdot 3^{2x} \cdot 3^{-1} + 3^{2x} \cdot 3^{2} - 3^{2x} \cdot 3 \le \frac{60}{5\sqrt{3}}$$

$$2 + 9t - 3t \le \frac{60}{5\sqrt{3}}$$

$$2 + 9t - 3t \le \frac{60}{5\sqrt{3}}$$

$$1 \le \frac{3}{3} \le \frac{3}{3} \le \frac{2}{3} \le \frac{2}$$