$$9^{x} - 6 \cdot 3^{x} - 27 < 0$$

$$3^{2x} - 6.3^{x} - 27 < 0$$
 $y = 3^{x}$

$$y = 9$$
 $y = -3$

$$(y-9)(y+3)<0$$

Solu7: X<2

$$S=(-\infty,2)$$

eserc. p.41 no 52

$$\frac{2}{5} \left\langle \left(\frac{2}{5}\right)^{x} \right\rangle \left\langle \frac{25}{4} \right\rangle$$

mi niconduce alla stessa base

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

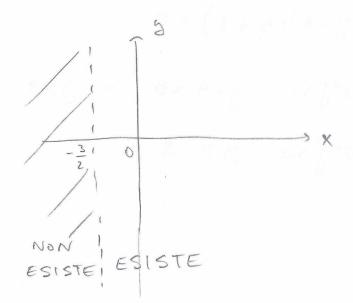
base < 1

$$1 > \times > -2$$
 \longrightarrow $-2 < \times < 2$

Dominio:

$$\times \ge \frac{3}{2}$$

$$D = \left[-\frac{3}{2} + \infty \right)$$



b)
$$y = \sqrt{2^{x+2} + 2^{x} - 20}$$

$$2^{x+2} + 2^{x} - 20 > 0$$

$$2^{2}.2^{x} + 2^{x} - 20 \ge 0$$

$$2^{\times} \ge 2^2$$

$$\times \geq 2$$
 $\emptyset = [2, +\infty)$

