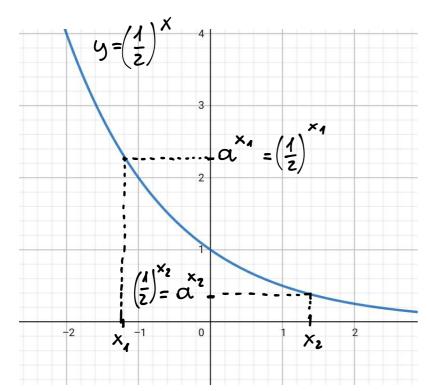


$$y=2^{\times}$$
 \(\bar{\pi}\) CRESCENIE, CIO\(\bar{\pi}\)  $\times_4 < \times_2 <=> 2^{\times_4} < 2^{\times_2}$ 

$$\times_1 < \times_2 \iff 2^{\times_1} < 2^{\times_2}$$

## ESEMPIO DI DISFAVAZIONE

$$2) 3^{x+1} \ge 9 3^{x+1} \ge 3^2 \times +1 \ge 2$$



$$y = a^{\times}$$
 con  $0 

 $\overline{e}$  DFRETSCENTE!$ 

ES. 1) 
$$\left(\frac{1}{2}\right)^{\times} < \frac{1}{8}$$
  $\left(\frac{1}{2}\right)^{\times} < \left(\frac{1}{2}\right)^{3}$   $\times > 3$ 

SE LA BASE É 0 < 0 < 1 SI INVERTE LA DISUGUAGLIANZA

SE LA BASE É 0 > 1 SI MANTIENE LA DISUGUAGLIANZA

quando

jans esti enformati

$$\frac{PA4. \ 437 \ N^{\circ} 146}{\left(\frac{2}{5}\right)^{\times +3} < \left(\frac{5}{2}\right)^{\times -2}} \qquad \qquad \frac{5}{2} = \left(\frac{2}{5}\right)^{-1}$$

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

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

$$fuchi 2x > -1 x > -\frac{1}{2}$$

$$0 < \frac{2}{5} < 1$$

ALTRO MODO 
$$\left(\frac{5}{2}\right)^{-x-3} < \left(\frac{5}{2}\right)^{x-2} > -x-3 < x-2 -2 \times < 1$$
 $\frac{5}{2} > 1$   $\times > -\frac{1}{2}$ 

PAG. 437 N 150

$$14\sqrt{2^{x+1}} > 34\sqrt{4^{x-3}}$$

$$2^{\frac{x+1}{2}} > 2 \cdot 2^{\frac{2(x-3)}{3}}$$

$$\begin{array}{c}
2 \times \frac{1}{2} \\
2 \times 1 \\
2 \times 1
\end{array}$$

$$\begin{array}{c}
2 \times \frac{1}{2} \\
2 \times 1 \\
2
\end{array}$$

$$\begin{array}{c}
2 \times \frac{1}{3} \\
2 \times 1 \\
2
\end{array}$$

$$\begin{array}{c}
2 \times \frac{1}{3} \\
3
\end{array}$$

$$\frac{x+1}{2} > 1 + \frac{2(x-3)}{3}$$

$$\frac{3\times+3}{6}>\frac{6+4\times-12}{6}$$