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$$25\left(\frac{1}{5}\right)^x +$$

$$25\left(\frac{1}{5}\right)^{x} + 5 - 2\left(\frac{1}{5}\right)^{-x} \le 0$$

$$[x \ge 1]$$

$$t = \left(\frac{1}{5}\right)^{\times} \implies \left(\frac{1}{5}\right)^{-\times} = t^{-1} = \frac{1}{t}$$

$$25t + 5 - \frac{2}{t} \le 0$$

$$\Delta = 25 + 200 = 225 = 15^2$$

$$t = -5 + 15$$

$$50$$

$$50$$

$$50$$

$$50$$

$$50$$

$$50$$

$$50$$

$$\begin{cases} t \geqslant -\frac{2}{5} \\ \end{cases}$$

$$\begin{cases} t \geqslant -\frac{2}{5} \\ \begin{cases} \left(\frac{1}{5}\right)^{\times} \geqslant -\frac{2}{5} \\ \end{cases} \Rightarrow \begin{cases} \forall x \in \mathbb{R} \\ \Rightarrow \begin{cases} x \geqslant 1 \end{cases} \end{cases}$$

$$t \leqslant \frac{1}{5} \begin{cases} \left(\frac{1}{5}\right)^{\times} \leqslant \frac{1}{5} \Rightarrow \begin{cases} x \geqslant 1 \end{cases} \Rightarrow \begin{cases} x \geqslant 1 \end{cases}$$

$$\left\{ \begin{pmatrix} \frac{1}{5} \end{pmatrix}^{\times} \leq \frac{1}{5} \implies \left\{ \times \geq 1 \right\}$$

ALTERNATIVA

$$25\left(\frac{1}{5}\right)^{x} + 5 - 2\left(\frac{1}{5}\right)^{-x} \le 0$$

$$\frac{25}{t} + 5 - 2t \le 0$$
 $\frac{25 + 5t - 2t^2}{t}$

$$2t^{2} - 5t - 25 \ge 0$$

$$\Delta = 25 + 2\infty = 225$$
 $t = \frac{5 \pm 45}{4} = (-\frac{5}{2} + \frac{5}{2} + \frac{5$

$$5^{\times} \leqslant -\frac{5}{2} \lor 5^{\times} \gt 5$$

t < - 5 v t > 5



