16/1/2018

18/. 438 N 157

$$g(\frac{2}{3})^{x} + 2 + 4(\frac{2}{3})^{x} \le 0$$
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$$\begin{array}{cccc}
t & \leq -3 & \forall & t \geqslant 10 \\
& \downarrow & & \downarrow \\
& \text{IMPOSSIBILE} & \left(\frac{1}{10}\right)^{\times} \geqslant \left(\frac{1}{10}\right)^{-1} & \Rightarrow & \times \leq -1
\end{array}$$

$$16^{\times} \ge 8 + 2 \cdot 4^{\times}$$
 $4^{2\times} \ge 8 + 2 \cdot 4^{\times}$
 $4^{2\times} \ge 8 + 2 \cdot 4^{\times}$
 $4^{2\times} = 10^{2}$
 $4^{2\times} =$

$$t^{3}-4t^{2}<0$$
 $t^{2}(t-4)<0$
 $t-4<0 \Rightarrow t<4$

finde
 $t^{2}=\text{sempre}>0$
 $t^{2}<2$

RISOLUZIONE DI LUCA

$$2+3x<2(x+z)$$

$$\frac{148}{2} \qquad \frac{35}{2} \left(\frac{1}{5}\right)^{2\times} > 0.7 \cdot 5^{\times}$$

$$\frac{535}{2}\left(\frac{1}{5}\right)^{2\times} \geqslant \frac{\cancel{7}}{\cancel{10}} \cdot 5^{\times}$$

$$5 \cdot \left(\frac{1}{5}\right)^{2x} \gg \frac{5^x}{5}$$

$$5.5^{-2x} > 5^{x}.5^{-1}$$

$$-3\times 2 - 2 \qquad \times \frac{2}{3}$$

$$2.3^{2\times-1} + 9^{\times+1} - 3^{2\times+1} \le \frac{60}{\sqrt[5]{3}}$$

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

$$\frac{2}{3} \cdot 3^{2 \times} + 3^{2 \times} \cdot 3^{2} - 3^{2 \times} \cdot 3 \leq \frac{60}{\sqrt[3]{3}}$$

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

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

$$\frac{2t+27t-9t}{3} \leq \frac{60}{\sqrt[5]{3}}$$

$$\frac{20t}{3} \le \frac{30}{5\sqrt{3}} + \le \frac{3^2}{3^{1/5}}$$

$$t < \frac{3^2}{3^{1/5}}$$

$$t \leqslant 3^{2-\frac{1}{5}}$$

$$3^{2\times} \le 3^{2-\frac{1}{5}}$$
 $2\times \le 2-\frac{1}{5}$ $2\times \le \frac{9}{5}$ $\times \le \frac{9}{10}$

$$\left[x \leqslant \frac{9}{10} \right]$$