

Esercizi sulle disequazioni esponenziali

$$1) \left(\frac{3}{4}\right)^{x-1} \geq \left(\frac{4}{27}\right)^{\frac{x-1}{x}}$$

$$S =]-\infty; 0[\cup \left[1; \frac{\ln 27 - \ln 4}{\ln 4 - \ln 3}\right]$$

$$2) 2^{\sqrt{\frac{1}{x}}} > 4^{\sqrt{x-1}}$$

$$S = \left[1; \frac{1+\sqrt{2}}{2}\right[$$

$$3) e^{-x} - 3 > -\frac{4}{e^{-x} + 2}$$

$$S =]-\infty; -\ln 2[$$

$$4) e\sqrt{e^x} + (\sqrt{e} - 1)e^x - e^2\sqrt{e} \leq 0$$

$$S =]-\infty; 2]$$

$$5) e^{3x} - e^{2x} + e^x - 1 < 0$$

$$S =]-\infty; 0[$$

Soluzione