

Diseguazioni esponenziali

$$1) \quad (2^{x+4})^2 \cdot 3^{x-1} \geq \frac{32}{3^{x+4}}$$

$$S = \left[-\frac{3}{2}; +\infty \right[$$

$$2) \quad (x+1)^x \cdot \sqrt{9 \cdot 3^{2x} - 4 \cdot 3^{x+2} + 27} > 0$$

$$S =]-1; 0[\cup]1; +\infty[$$

$$3) \quad \frac{4 \cdot 2^{x-1} - 1}{3^x - 9} < 0$$

$$S =]-1; 2[$$

$$4) \quad 4 \cdot 5^x - 80 > \sqrt{5^{2x} - 9 \cdot 5^x}$$

$$S =]2; +\infty[$$

$$5) \quad \sqrt{2(3^x - 1)} \geq 3^x - 1$$

$$S = [0; 1]$$