

Risolvere le disequazioni

- 1) $(x - 1)((3x - 1)^4 - 2)(x^3 - 7) < 0.$
- 2) $(\sqrt{x^2 - 7} - 1)^6 < 5(\sqrt{x^2 - 7} - 1)^3 - 6.$
- 3) $\left(\frac{x^7}{x^7 - 3}\right)^{92} \geq 7\left(\frac{x^7}{x^7 - 3}\right)^{10}.$
- 4) $\sqrt{(x^3 - 2)x + 2 - x^3} \left(\frac{x^8}{1-2x^8} - 7\right) < 0.$
- 5) $\left(\sqrt{(x^3 - 2)x + 2 - x^3} + x^6 + 6^x\right)\left(\frac{x^8}{1-2x^8} - 7\right) < 0.$
- 6) $\frac{1}{(3x+5)^7} + \sqrt{x^8 - \frac{9}{10}} < 6 + \sqrt{x^8 - \frac{9}{10}}.$
- 7) $(x^8 + \frac{1}{10})^{\frac{1}{(3x+5)^7}} < (x^8 + \frac{1}{10})^6.$
- 8) $\frac{\sqrt{86^4 - (3x-1)^4}}{\sqrt[4]{x^7 - 2} \sqrt[4]{17-x}} > 0.$