

Laboratorio di matematica

Esercitazioni proposte – Derive

Risoluzione delle disequazioni numeriche

Utilizza *Derive* per risolvere le seguenti disequazioni.

$$1 \quad \frac{x^2 - 2x + 1}{x - 3} > 0 \quad [x > 3]$$

$$2 \quad \frac{x^2 - 2x + 1}{x + 3} > 0 \quad [x > -3 \wedge x \neq 1]$$

$$3 \quad \frac{x^2 - 2x}{x^2} < 0 \quad [0 < x < 2]$$

$$4 \quad \frac{7}{x - 2} > \frac{8}{x - 5} \quad [x < -19 \vee 2 < x < 5]$$

$$5 \quad \frac{1}{x + 8} < \frac{1}{x - 8} \quad [x < -8 \vee x > 8]$$

$$6 \quad \frac{x - 1}{x + 1} + \frac{2}{x} > \frac{1}{4} \quad [x < -1 \vee x > 0]$$

$$7 \quad \frac{x - 3}{3} < \frac{1}{x - 1} \quad [x < 0 \vee 1 < x < 4]$$

$$8 \quad \frac{x}{x - 1} < \frac{x}{x + 3} \quad [x < -3 \vee 0 < x < 1]$$

$$9 \quad x \leq \frac{1}{4x - 3} \quad \left[x \leq -\frac{1}{4} \vee \frac{3}{4} < x \leq 1 \right]$$