

ESERCIZI PROPOSTI

Disequazioni di grado superiore al secondo

Risolvi le seguenti disequazioni di grado superiore al secondo.

$$1 \quad x^3 - 4x^2 + 5x - 2 < 0 \quad x < 2 \wedge x \neq 1$$

$$2 \quad x^3 + 3x^2 - x - 3 \geq 0 \quad -3 \leq x \leq -1 \vee x \geq 1$$

$$3 \quad -3x^3 + 2x - 1 \leq 0 \quad x \geq -1$$

$$4 \quad x^3 + 2x^2 - 9x - 18 < 0 \quad x < -3 \vee -2 < x < 3$$

$$5 \quad x^3 - 6x^2 + 11x - 6 > 0 \quad 1 < x < 2 \vee x > 3$$

$$6 \quad x^4 - 3x^2 + 2 \leq 0 \quad -\sqrt{2} \leq x \leq -1 \quad 1 \leq x \leq \sqrt{2}$$

$$7 \quad x^4 - 7x^2 - 18 \leq 0 \quad x \leq -3 \vee x \geq 3$$

$$8 \quad 9x^4 - 19x^2 + 2 < 0 \quad -\sqrt{2} < x < -\frac{1}{2} \vee \frac{1}{2} < x < \sqrt{2}$$

$$9 \quad x^3 - 9x - 2x^2 + 18 > 0 \quad -3 < x < 2 \vee x > 3$$

$$10 \quad x^3 - 5x^2 - 6x < 0 \quad x < 0 \vee 2 < x < 3$$

$$11 \quad 2x^3 - x^2 - 8x + 4 < 0 \quad x < -2 \vee \frac{1}{2} < x < 2$$

$$13 \quad x^3 - x^2 - x + 1 \geq 0 \quad x \geq -1$$

$$14 \quad x^3 - 2x^2 + x - 2 \leq 0 \quad x \leq 2$$

$$15 \quad 5x^3 - 2x^2 - 5x + 2 > 0 \quad -1 < x < \frac{2}{5} \vee x > 1$$