

Disequazioni polinomiali

Periodo 2 - UdA 8

Risolvere le seguenti disequazioni

$$[1] \quad \frac{-5x-6-x^2}{-4x+2x^2} \leq 0$$

$$[2] \quad \frac{-3x^3-9x^2}{8-4x^2-4x} \leq 0$$

$$[3] \quad \frac{-4x-x^2-4}{-x^4-x^2} > 0$$

$$[4] \quad \frac{-3x-3x^3}{-2x^2-4x-2} < 0$$

$$[5] \quad \frac{-2x^2-8+8x}{-5x^3} \leq 0$$

$$[6] \quad \frac{-10x-5x^2}{6x-12} \geq 0$$

$$[7] \quad \frac{-8-2x^2}{-9x+3x^2} \leq 0$$

$$[8] \quad \frac{-3x^3-6x^2}{-18-2x^2} \geq 0$$

$$[9] \quad \frac{-4-4x}{9x^2+3x^3} \leq 0$$

$$[10] \quad \frac{-x^3+16x}{10x-12-2x^2} \geq 0$$

$$[11] \quad \frac{3x^2}{-4-4x^2+8x} \leq 0$$

$$[12] \quad \frac{-15x-5x^2+20}{-x^2+9} > 0$$

SOLUZIONI

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1. $x \leq -3$ $-2 \leq x < 0$ $2 < x$
2. $x \leq -3$ $-2 < x \leq 0$ $0 \leq x < 1$
3. $x < -2$ $-2 < x < 0$ $0 < x$
4. $x < -1$ $-1 < x < 0$
5. $x < 0$ $x = 2$
6. $x \leq -2$ $0 \leq x < 2$
7. $x < 0$ $3 < x$
8. $-2 \leq x \leq 0$ $0 \leq x$
9. $x < -3$ $-1 \leq x < 0$ $0 < x$
10. $-4 \leq x \leq 0$ $2 < x < 3$ $4 \leq x$
11. $x \leq 0$ $0 \leq x < 1$ $1 < x$
12. $x < -4$ $-3 < x < 1$ $3 < x$