

Disequazioni razionali

Periodo 2 - UdA 8

Risolvere le seguenti disequazioni

$$[1] \quad \frac{-2x^2-8+8x}{5x^3} \geq 0$$

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

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

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

$$[5] \quad \frac{3x+3x^3}{-2x^2-4x-2} > 0$$

$$[6] \quad \frac{-x^3+16x}{10x-12-2x^2} \geq 0$$

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

$$[8] \quad \frac{-15x-5x^2+20}{x^2-9} < 0$$

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

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

$$[11] \quad \frac{4-4x}{-9x^2+3x^3} \leq 0$$

$$[12] \quad \frac{4x-x^2-4}{-x^4-x^2} > 0$$

SOLUZIONI

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