

Disequazioni polinomiali

Periodo 2 - UdA 6

Risolvere le seguenti disequazioni

1. $-4x^4 (x - 6) (x + 6)^3 (x - 2) \geq 0$

2. $2x (x + 7) (x - 4)^3 (x + 4)^2 \leq 0$

3. $-2x^2 (x - 6)^3 (x^4 + 3) (x + 4)^3 \leq 0$

4. $-3x (x - 3) (x^4 + 9) (x - 5)^2 < 0$

5. $(x + 6)^3 (x^2 + 5) (x + 3) (x - 2) \leq 0$

6. $-2 (x + 3)^4 (x - 3)^2 (x + 1) (x - 5)^3 \leq 0$

7. $-(x + 3)^2 (x + 5)^2 (x - 3)^4 (x^6 + 7) \geq 0$

8. $3 (x - 6) (x + 2)^3 (x - 4)^2 (x^4 + 6) < 0$

9. $x^3 (x + 3) (x + 7)^3 (x - 3)^2 \leq 0$

SOLUZIONI

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1. $x \leq -6$ $x = 0$ $2 \leq x \leq 6$

2. $x \leq -7$ $x = -4$ $0 \leq x \leq 4$

3. $x \leq -4$ $x = 0$ $6 \leq x$

4. $x < 0$ $3 < x < 5$ $5 < x$

5. $x \leq -6$ $-3 \leq x \leq 2$

6. $x \leq -3$ $-3 \leq x \leq -1$ $x = 3$ $5 \leq x$

7. $x = -5$ $x = -3$ $x = 3$

8. $-2 < x < 4$ $4 < x < 6$

9. $x \leq -7$ $-3 \leq x \leq 0$ $x = 3$