

Disequazioni razionali scomposte

Periodo 2 - UdA 6

Risolvere le seguenti disequazioni

[1]	$-\frac{2x(x-3)^2}{3(x+2)(x^2+3)} \leq 0$	[2]	$-\frac{4x^2(x+1)^3}{(x-1)(x^2+1)^2} \geq 0$	[3]	$-\frac{2x^2(x-2)^2}{5(x+1)^3(x-1)} \leq 0$
[4]	$-\frac{3(x+3)^4(x+1)}{(x-1)^2(x+2)} \leq 0$	[5]	$\frac{2x^3(x+2)}{3(x+1)^3(x-2)^2} \geq 0$	[6]	$-\frac{4(x-1)(x-3)^3}{(x-2)^2(x+2)} \leq 0$
[7]	$\frac{2(x+2)^2(x^2+3)}{5x^2(x-2)^3} > 0$	[8]	$-\frac{4(x+1)^2(x-1)}{3x(x-2)} \geq 0$	[9]	$-\frac{3(x-1)(x^2+2)^3}{2x^2(x+3)^3} > 0$
[10]	$-\frac{3(x+3)^2(x+2)^2}{x(x+1)^3} \leq 0$	[11]	$\frac{3(x-2)(x+1)^3}{4(x+3)(x^2+2)} \geq 0$	[12]	$\frac{2(x-1)(x-3)^2}{3(x+3)(x+2)} \leq 0$
[13]	$-\frac{3(x-1)^2(x+1)}{4(x+3)^2(x-2)} \leq 0$	[14]	$\frac{2(x+3)(x^2+3)}{3(x-3)(x+2)^3} < 0$	[15]	$-\frac{(x-2)(x+2)^4}{5(x-1)^2(x+1)^3} \leq 0$

SOLUZIONI

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1. $x < -2$ $0 \leq x \leq 3$ $3 \leq x$

2. $-1 \leq x \leq 0$ $0 \leq x < 1$

3. $x < -1$ $1 < x \leq 2$ $2 \leq x$

4. $x \leq -3$ $-3 \leq x < -2$ $-1 \leq x < 1$ $1 < x$

5. $-2 \leq x < -1$ $0 \leq x < 2$ $2 < x$

6. $-2 < x \leq 1$ $3 \leq x$

7. $2 < x$

8. $x \leq -1$ $-1 \leq x < 0$ $1 \leq x < 2$

9. $-3 < x < 0$ $0 < x < 1$

10. $x \leq -3$ $-3 \leq x \leq -2$ $-2 \leq x < -1$ $0 < x$

11. $-3 < x \leq -1$ $2 \leq x$

12. $x < -3$ $-2 < x \leq 1$

13. $x < -3$ $-3 < x \leq -1$ $2 < x$

14. $x < -3$ $-2 < x < 3$

15. $x \leq -2$ $-2 \leq x < -1$ $2 \leq x$