

Istituto Superiore "Carducci" Volterra - Sez. ISA

Soluzioni verifica scritta del 25/10/2006 - Classe 5A

Esercizio 1. $\frac{4x-3}{x+6} > 0 \Rightarrow R. \{x < -6\} \cup \left\{x > \frac{3}{4}\right\}$

Esercizio 2. $\frac{-2x+1}{3x-x^2} < 0 \Rightarrow R. \{x < 0\} \cup \left\{\frac{1}{2} < x < 3\right\}$

Esercizio 3. $\frac{-6x-3}{-5-x} > 0 \Rightarrow R. \{x < -5\} \cup \left\{x > -\frac{1}{2}\right\}$

Esercizio 4. $\frac{4x^2-3x}{x^2-2x-8} < 0 \Rightarrow R. \{-2 < x < 0\} \cup \left\{\frac{3}{4} < x < 4\right\}$

Esercizio 5. $\frac{4x-x^2+5}{x^2-9x+20} < 0 \Rightarrow R. \{x < -1\} \cup \{4 < x < 5\} \cup \{x > 5\}$

Esercizio 6. $\frac{5+2x}{-2x^2+14x+16} < 0 \Rightarrow R. \left\{-\frac{5}{2} < x < -1\right\} \cup \{x > 8\}$

Esercizio 7. $\frac{5x-2x^2-10}{x^2+3x-28} > 0 \Rightarrow R. \{-7 < x < 4\}$

Esercizio 8. $\frac{x^2-6x+9}{8x-7x^2} > 0 \Rightarrow R. \left\{0 < x < \frac{8}{7}\right\}$

Esercizio 9. $\frac{3x^2+2x-8}{6x^2+19x+15} < 0 \Rightarrow R. \left\{-2 < x < -\frac{5}{3}\right\} \cup \left\{-\frac{3}{2} < x < \frac{4}{3}\right\}$

Esercizio 10. $\frac{3x^2-5x-2}{4x^2+8x-5} > 0 \Rightarrow R. \left\{x < -\frac{5}{2}\right\} \cup \left\{-\frac{1}{3} < x < \frac{1}{2}\right\} \cup \{x > 2\}$

Esercizio 11. $\frac{4x-4}{x^2-3x+2} < 0 \Rightarrow R. \{x < 1\} \cup \{1 < x < 2\}$

Esercizio 12. $\frac{2x+4}{2x^2-3x-14} > 0 \Rightarrow R. \left\{x > \frac{7}{2}\right\}$

Esercizio 13. $\frac{-7x+6}{x^2+10x+25} < 0 \Rightarrow R. \left\{x > \frac{6}{7}\right\}$

Esercizio 14. $\frac{-3+3x}{x^3-4x^2} > 0 \Rightarrow R. \{x < 0\} \cup \{0 < x < 1\} \cup \{x > 4\}$