

Semplificazione di funzioni razionali scomposte

Periodo 3 - UdA 4

Semplificare le seguenti funzioni razionali

$$[1] \quad \frac{2x(x+2)^3}{x(x-3)}$$

$$[2] \quad \frac{x^4(x^2+1)}{3x(x+3)^2}$$

$$[3] \quad -\frac{5(x+2)(x-1)}{2(x^2+2)(x-1)^2}$$

$$[4] \quad \frac{4(x+3)(x^2+2)}{3x^2(x+3)^2}$$

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

$$[6] \quad -\frac{(x^2+1)^3(x-1)}{5(x^2+1)(x+3)(x-1)}$$

$$[7] \quad -\frac{2(x^2+3)(x+2)^2(x^2+2)}{3(x^2+2)(x-2)^4}$$

$$[8] \quad \frac{4(x+2)^2(x-1)}{3x^3(x-1)^3(x+2)}$$

$$[9] \quad -\frac{4x^3(x-1)^2(x+2)}{3x(x+1)^3}$$

$$[10] \quad \frac{x^2(x-2)^3(x^2+3)}{5x^5(x+3)(x-2)}$$

SOLUZIONI

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$$[1] \quad \frac{2(x+2)^3}{(x-3)}$$

$$[2] \quad \frac{x^3(x^2+1)}{3(x+3)^2}$$

$$[3] \quad -\frac{5(x+2)}{2(x^2+2)(x-1)}$$

$$[4] \quad \frac{4(x^2+2)}{3x^2(x+3)}$$

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

$$[6] \quad -\frac{(x^2+1)^2}{5(x+3)}$$

$$[7] \quad -\frac{2(x^2+3)(x+2)^2}{3(x-2)^4}$$

$$[8] \quad \frac{4(x+2)}{3x^3(x-1)^2}$$

$$[9] \quad -\frac{4x^2(x-1)^2(x+2)}{3(x+1)^3}$$

$$[10] \quad \frac{(x-2)^2(x^2+3)}{5x^3(x+3)}$$