

Scomposizione di frazioni algebriche

Periodo 2 - UdA 7

Scomporre le seguenti frazioni algebriche

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

$$[2] \quad \frac{-16x-x^5-8x^3}{8-2x}$$

$$[3] \quad \frac{25x^2-9x^4}{9x+3x^2-30}$$

$$[4] \quad \frac{24x-4x^2-4x^3}{-x^4+81}$$

$$[5] \quad \frac{-256-x^8}{5x^3-10x+5x^2}$$

$$[6] \quad \frac{3x^4-9x^2-12}{16x-81x^5}$$

$$[7] \quad \frac{-12x^2-27}{12x-18-2x^2}$$

$$[8] \quad \frac{4x^3-2x^4+16x^2}{-9+16x^2}$$

$$[9] \quad \frac{4x^5+16x^3}{-3+6x^4-3x^8}$$

SOLUZIONI

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

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

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

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

$$[5] \quad -\frac{(x^8+256)}{5x(x+2)(x-1)}$$

$$[6] \quad -\frac{3(x^2+1)(x+2)(x-2)}{x(9x^2+4)(3x+2)(3x-2)}$$

$$[7] \quad \frac{3(4x^2+9)}{2(x-3)^2}$$

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

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