

Simulazione di verifica

Periodo 2 - UdA 7

Scomporre i seguenti polinomi

$$[1] \quad -12x^2 - 10x^3 + 2x^4$$

$$[2] \quad 16x^6 - x^2$$

$$[3] \quad -5x^3 + 4x + x^5$$

$$[4] \quad -36x^2 + x^6 - 5x^4$$

$$[5] \quad -4x^4 + 2x^5 - 30x^3$$

$$[6] \quad 18x^2 - 50$$

$$[7] \quad -32x^5 - 2x$$

$$[8] \quad 16x^5 - x^3$$

$$[9] \quad -5x^8 + 5$$

$$[10] \quad -2x^5 - 32x - 16x^3$$

$$[11] \quad 8x^4 + 18x^2$$

$$[12] \quad 18x + 3x^2 + 27$$

Scomporre le seguenti frazioni algebriche

$$[13] \quad \frac{4-9x^2}{16x+x^3-8x^2}$$

$$[14] \quad \frac{8x^2-18x^4}{-4x^2-1}$$

$$[15] \quad \frac{-18x^2-81-x^4}{x}$$

$$[16] \quad \frac{x^2-16x^4}{-6+x^2-x}$$

$$[17] \quad \frac{-4x^2}{-16+x^4}$$

$$[18] \quad \frac{-3x^4+12+9x^2}{3x^3}$$

$$[19] \quad \frac{-81-x^4}{6x^2-15x}$$

$$[20] \quad \frac{7x^3-x^4-12x^2}{4x^2+1}$$

$$[21] \quad \frac{9x^2-4}{-8x^2-6x-2x^3}$$

$$[22] \quad \frac{-x^2-12-7x}{9x+16x^3}$$

$$[23] \quad \frac{-4-3x}{-20x-9x^2-x^3}$$

$$[24] \quad \frac{-x^2}{3-243x^4}$$

SOLUZIONI

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$$[1] \quad 2x^2 (x - 6) (x + 1) \qquad [2] \quad x^2 (2x - 1) (2x + 1) (4x^2 + 1)$$

$$[3] \quad x (x - 2) (x + 2) (x - 1) (x + 1) \qquad [4] \quad x^2 (x^2 + 4) (x - 3) (x + 3)$$

$$[5] \quad 2x^3 (x - 5) (x + 3) \qquad [6] \quad 2 (3x - 5) (3x + 5)$$

$$[7] \quad -2x (16x^4 + 1) \qquad [8] \quad x^3 (4x - 1) (4x + 1)$$

$$[9] \quad -5 (x - 1) (x + 1) (x^2 + 1) (x^4 + 1) \qquad [10] \quad -2x (x^2 + 4)^2$$

$$[11] \quad 2x^2 (4x^2 + 9) \qquad [12] \quad 3 (x + 3)^2$$

$$[13] \quad -\frac{(3x-2)(3x+2)}{x(x-4)^2}$$

$$[14] \quad \frac{2x^2(3x-2)(3x+2)}{(4x^2+1)}$$

$$[15] \quad -\frac{(x^2+9)^2}{x}$$

$$[16] \quad -\frac{x^2(4x-1)(4x+1)}{(x+2)(x-3)}$$

$$[17] \quad -\frac{4x^2}{(x-2)(x+2)(x^2+4)}$$

$$[18] \quad -\frac{3(x-2)(x+2)(x^2+1)}{3x^3}$$

$$[19] \quad -\frac{(x^4+81)}{3x(2x-5)}$$

$$[20] \quad -\frac{x^2(x-3)(x-4)}{(4x^2+1)}$$

$$[21] \quad -\frac{(3x-2)(3x+2)}{2x(x+1)(x+3)}$$

$$[22] \quad -\frac{(x+4)(x+3)}{x(16x^2+9)}$$

$$[23] \quad \frac{(3x+4)}{x(x+4)(x+5)}$$

$$[24] \quad \frac{x^2}{3(3x-1)(3x+1)(9x^2+1)}$$