

Scomposizione di polinomi

Periodo 2 - UdA 7

Scomporre i seguenti polinomi

$$[1] \quad 12x + 15 - 3x^2$$

$$[3] \quad -24x^2 - 20x^3 - 4x^4$$

$$[5] \quad 4x^{10} + 4x^2$$

$$[7] \quad -5 + 20x^2$$

$$[9] \quad -x^8 + 1$$

$$[11] \quad 3x^4 - 12 - 9x^2$$

$$[13] \quad -81x^6 + x^2$$

$$[15] \quad x^6 + 16x^2 - 8x^4$$

$$[17] \quad x^2 + 12x + 36$$

$$[19] \quad 8x^3 + 9x^4$$

$$[21] \quad 20x + 2x^3 + 14x^2$$

$$[23] \quad -27x^4 + 18x^5 - 3x^6$$

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

$$[4] \quad -18x^3 - 8x^5$$

$$[6] \quad -20x - 2x^2 - 50$$

$$[8] \quad 32 - 2x^4$$

$$[10] \quad -18x + 8x^3$$

$$[12] \quad 3x^4 + x^5 - 18x^3$$

$$[14] \quad 16x^5 + x$$

$$[16] \quad 5x - 10$$

$$[18] \quad -25x^3 + 9x$$

$$[20] \quad -8x^4 + x^5 + 16x^3$$

$$[22] \quad -3 - 3x^4 - 6x^2$$

$$[24] \quad -15x^3 + 12x^2$$

SOLUZIONI

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- [1] $-3(x-5)(x+1)$
- [3] $-4x^2(x+3)(x+2)$
- [5] $4x^2(x^8+1)$
- [7] $5(2x-1)(2x+1)$
- [9] $-(x-1)(x+1)(x^2+1)(x^4+1)$
- [11] $3(x^2+1)(x-2)(x+2)$
- [13] $-x^2(3x-1)(3x+1)(9x^2+1)$
- [15] $x^2(x-2)^2(x+2)^2$
- [17] $(x+6)^2$
- [19] $x^3(9x+8)$
- [21] $2x(x+2)(x+5)$
- [23] $-3x^4(x-3)^2$

- [2] $-x^2(x-1)(x+1)(x-2)(x+2)$
- [4] $-2x^3(4x^2+9)$
- [6] $-2(x+5)^2$
- [8] $-2(x-2)(x+2)(x^2+4)$
- [10] $2x(2x-3)(2x+3)$
- [12] $x^3(x+6)(x-3)$
- [14] $x(16x^4+1)$
- [16] $5(x-2)$
- [18] $-x(5x-3)(5x+3)$
- [20] $x^3(x-4)^2$
- [22] $-3(x^2+1)^2$
- [24] $-3x^2(5x-4)$