

Simulazione di verifica

Periodo 2 - UdA 7

Scomporre i seguenti polinomi

[1]	$-5x^3 - 4x - x^5$	[2]	$-2x - 32x^5$	[3]	$50 - 18x^2$
[4]	$5 - 5x^8$	[5]	$12x^2 - 2x^4 + 10x^3$	[6]	$x^3 - 16x^5$
[7]	$-16x^6 + x^2$	[8]	$-2x^5 - 32x - 16x^3$	[9]	$8x^4 + 18x^2$
[10]	$-30x^3 + 4x^4 + 2x^5$	[11]	$-x^6 + 13x^4 - 36x^2$	[12]	$18x - 3x^2 - 27$

Scomporre le seguenti frazioni algebriche

[13]	$\frac{-9x^2+4}{8x^2-2x^3-6x}$	[14]	$\frac{-4-3x}{20x+x^3+9x^2}$	[15]	$\frac{4x^2}{16-x^4}$
[16]	$\frac{-x^4+7x^3-12x^2}{-1-4x^2}$	[17]	$\frac{-x^2}{3-243x^4}$	[18]	$\frac{-x^2+16x^4}{-x^2+x+6}$
[19]	$\frac{-81-x^4}{-6x^2-15x}$	[20]	$\frac{9x^2+12-3x^4}{3x^3}$	[21]	$\frac{18x^2+x^4+81}{-x}$
[22]	$\frac{-9x^2+4}{-16x-x^3+8x^2}$	[23]	$\frac{-12-x^2-7x}{-16x^3-9x}$	[24]	$\frac{-18x^4+8x^2}{1+4x^2}$

SOLUZIONI

Simulazione di verifica

Periodo 2 - UdA 7

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

$$[2] \quad -2x (16x^4 + 1)$$

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

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

$$[5] \quad -2x^2 (x - 6) (x + 1)$$

$$[6] \quad -x^3 (4x + 1) (4x - 1)$$

$$[7] \quad -x^2 (4x^2 + 1) (2x + 1) (2x - 1)$$

$$[8] \quad -2x (x^2 + 4)^2$$

$$[9] \quad 2x^2 (4x^2 + 9)$$

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

$$[11] \quad -x^2 (x + 3) (x - 3) (x + 2) (x - 2)$$

$$[12] \quad -3 (x - 3)^2$$

$$[13] \quad \frac{(3x+2)(3x-2)}{2x(x-1)(x-3)}$$

$$[14] \quad -\frac{(3x+4)}{x(x+4)(x+5)}$$

$$[15] \quad -\frac{4x^2}{(x^2+4)(x+2)(x-2)}$$

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

$$[17] \quad \frac{x^2}{3(9x^2+1)(3x+1)(3x-1)}$$

$$[18] \quad -\frac{x^2(4x+1)(4x-1)}{(x+2)(x-3)}$$

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

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

$$[21] \quad -\frac{(x^2+9)^2}{x}$$

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

$$[23] \quad \frac{(x+4)(x+3)}{x(16x^2+9)}$$

$$[24] \quad -\frac{2x^2(3x+2)(3x-2)}{(4x^2+1)}$$