

Scomposizione di trinomi di grado pari

Periodo 2 - UdA 7

Scomporre i seguenti trinomi monici

[1]	$x^4 - 13x^2 + 36$	[2]	$x^4 + 5x^2 - 36$	[3]	$x^4 - 10x^2 + 9$
[4]	$x^4 - 5x^2 + 4$	[5]	$x^4 - 17x^2 + 16$	[6]	$x^8 + 15x^4 - 16$
[7]	$x^4 - 8x^2 + 16$	[8]	$x^4 + 8x^2 - 9$	[9]	$x^4 + 15x^2 - 16$
[10]	$x^4 + 3x^2 - 4$	[11]	$x^4 - 8x^2 - 9$	[12]	$x^8 + 2x^4 + 1$
[13]	$x^4 + 17x^2 + 16$	[14]	$x^8 + 17x^4 + 16$	[15]	$x^8 - 15x^4 - 16$
[16]	$x^4 + 8x^2 + 16$	[17]	$x^4 + 5x^2 + 4$	[18]	$x^4 - 3x^2 - 4$
[19]	$x^4 + 10x^2 + 9$	[20]	$x^4 - 2x^2 + 1$	[21]	$x^4 - 15x^2 - 16$
[22]	$x^4 + 13x^2 + 36$	[23]	$x^4 - 5x^2 - 36$	[24]	$x^4 + 2x^2 + 1$

Scomporre i seguenti trinomi dopo averli ordinati e/o eseguito un raccoglimento

[25]	$-30x^2 - 2x^4 + 32$	[26]	$-6 - 12x^4 - 6x^8$
[27]	$3x^5 - 15x^3 + 12x$	[28]	$-13x^4 - 36x^2 - x^6$
[29]	$-2x^4 + 72 + 10x^2$	[30]	$16x + x^5 - 8x^3$

SOLUZIONI

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

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

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

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

$$[9] \quad (x-1)(x+1)(x^2+16)$$

$$[11] \quad (x^2+1)(x-3)(x+3)$$

$$[13] \quad (x^2+1)(x^2+16)$$

$$[15] \quad (x^4+1)(x-2)(x+2)(x^2+4)$$

$$[17] \quad (x^2+1)(x^2+4)$$

$$[19] \quad (x^2+1)(x^2+9)$$

$$[21] \quad (x^2+1)(x-4)(x+4)$$

$$[23] \quad (x^2+4)(x-3)(x+3)$$

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

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

$$[6] \quad (x-1)(x+1)(x^2+1)(x^4+16)$$

$$[8] \quad (x-1)(x+1)(x^2+9)$$

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

$$[12] \quad (x^4+1)^2$$

$$[14] \quad (x^4+1)(x^4+16)$$

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

$$[18] \quad (x^2+1)(x-2)(x+2)$$

$$[20] \quad (x-1)^2(x+1)^2$$

$$[22] \quad (x^2+4)(x^2+9)$$

$$[24] \quad (x^2+1)^2$$

$$[25] \quad -2(x-1)(x+1)(x^2+16)$$

$$[26] \quad -6(x^4+1)^2$$

$$[27] \quad 3x(x-1)(x+1)(x-2)(x+2)$$

$$[28] \quad -x^2(x^2+4)(x^2+9)$$

$$[29] \quad -2(x^2+4)(x-3)(x+3)$$

$$[30] \quad x(x-2)^2(x+2)^2$$