Scomposizione di trinomi monici di grado superiore

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]	$x^4 + 2x^2 + 1$

SOLUZIONI

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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