Scomposizione di binomi di secondo grado

Periodo 2 - UdA 7

Scomporre (ove possibile) i seguenti binomi di secondo grado

[1]	$49x^2 - 16$	[2]	$25x^2 + 9$	[3]	$36x^2 + 1$	[4]	$81x^2 - 16$
[5]	$x^2 + 25$	[6]	$16x^2 + 49$	[7]	$100x^2 + 1$	[8]	$100x^2 - 49$
[9]	$81x^2 + 100$	[10]	$9x^2 - 49$	[11]	$4x^2 - 49$	[12]	$9x^2 + 100$
[13]	$100x^2 - 9$	[14]	$16x^2 - 1$	[15]	$x^2 - 36$	[16]	$36x^2 - 49$
[17]	$81x^2 + 1$	[18]	$16x^2 - 9$	[19]	$25x^2 - 49$	[20]	$9x^2 - 25$
[21]	$4x^2 - 9$	[22]	$81x^2 + 64$	[23]	$81x^2 - 4$	[24]	$64x^2 - 49$
[25]	$49x^2 + 9$	[26]	$x^2 - 64$	[27]	$x^2 - 1$	[28]	$x^2 + 25$

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

[29]	$18x + 2x^3$	[30]	$-x - 64x^3$	[31]	$-81x^2 + 100x^4$
[32]	$-81x^5 - 25x^3$	[33]	$-12 + 3x^2$	[34]	$-8x^5 + 50x^3$
[35]	$-3 + 75x^2$	[36]	$-64x^5 + 25x^3$	[37]	$-25x^3 + 16x^5$
[38]	$-16x^2 - x^4$	[39]	$81x + 16x^3$	[40]	$81x^2 - 64x^4$
[41]	$-81x + 25x^3$	[42]	$9x^3 - 4x^5$	[43]	$9x^5 + 64x^3$
[44]	$4 - 49x^2$	[45]	$16x^3 + 4x$	[46]	$-8 - 50x^2$
[47]	$64x + 25x^3$	[48]	$-x^4 + 49x^2$	[49]	$9 - 64x^2$
[50]	$-81 + x^2$	[51]	$16x^2 + 9x^4$	[52]	$-36x^3 - 49x^5$
[53]	$-3x + 27x^3$	[54]	$-49x^3 - 100x$	[55]	$50x^4 + 32x^2$
[56]	$-7x^2 + 700$	[57]	$25x^2 + 49x^4$	[58]	$-64x^3 - 49x^5$
[59]	$27x^3 + 12x$	[60]	$81x^2 + 4x^4$	[61]	$-49x^3 + x$

SOLUZIONI

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[1]	$(7x+4)(7x-4)$	[2]	*Irriducibile*	[3]	*Irriducibile*	[4]	$(9x+4)(9x-4)$
[5]	*Irriducibile*	[6]	*Irriducibile*	[7]	*Irriducibile*	[8]	$(10x+7)(10x-7)$
[9]	*Irriducibile*	[10]	$(3x+7)(3x-7)$	[11]	$(2x+7)(2x-7)$	[12]	*Irriducibile*
[13]	$(10x+3)(10x-3)$	[14]	$(4x+1)(4x-1)$	[15]	$(x+6)(x-6)$	[16]	$(6x+7)(6x-7)$
[17]	*Irriducibile*	[18]	$(4x+3)(4x-3)$	[19]	$(5x+7)(5x-7)$	[20]	$(3x+5)(3x-5)$
[21]	$(2x+3)(2x-3)$	[22]	*Irriducibile*	[23]	$(9x+2)(9x-2)$	[24]	$(8x+7)(8x-7)$
[25]	*Irriducibile*	[26]	$(x+8)(x-8)$	[27]	$(x+1)(x-1)$	[28]	*Irriducibile*

[29]	$2x\left(x^2+9\right)$	[30]	$-x\left(64x^2+1\right)$	[31]	$x^2(10x+9)(10x-9)$
[32]	$-x^3\left(81x^2+25\right)$	[33]	$3(x+2)(x-2)$	[34]	$-2x^3(2x+5)(2x-5)$
[35]	$3(5x+1)(5x-1)$	[36]	$-x^3(8x+5)(8x-5)$	[37]	$x^3(4x+5)(4x-5)$
[38]	$-x^2\left(x^2+16\right)$	[39]	$x\left(16x^2+81\right)$	[40]	$-x^2(8x+9)(8x-9)$
[41]	$x(5x+9)(5x-9)$	[42]	$-x^3(2x+3)(2x-3)$	[43]	$x^3\left(9x^2+64\right)$
[44]	$-(7x+2)(7x-2)$	[45]	$4x\left(4x^2+1\right)$	[46]	$-2\left(25x^2+4\right)$
[47]	$x\left(25x^2+64\right)$	[48]	$-x^2(x+7)(x-7)$	[49]	$-(8x+3)(8x-3)$
[50]	$(x+9)(x-9)$	[51]	$x^2\left(9x^2+16\right)$	[52]	$-x^3\left(49x^2+36\right)$
[53]	$3x(3x+1)(3x-1)$	[54]	$-x\left(49x^2+100\right)$	[55]	$2x^2\left(25x^2+16\right)$
[56]	$-7(x+10)(x-10)$	[57]	$x^2\left(49x^2+25\right)$	[58]	$-x^3\left(49x^2+64\right)$
[59]	$3x\left(9x^2+4\right)$	[60]	$x^2\left(4x^2+81\right)$	[61]	$-x(7x+1)(7x-1)$