Espressioni letterali intere

Periodo 1 - UdA 7-8

Risolvere le seguenti espressioni: i risultati sono binomi con coefficienti opposti

1. $3x^3\left(3x^2-2\right)-8x+2x\left(3x^2+1\right)-3x^5$
2. $(3x-2)\left(x^2-2\right)+3x-\left(6x^2+4\right)\left(-2x^2+1\right)-12x^4$
3. $-4-2\left(x^3-3x^2+x-2\right)+6x^3-2\left(x^3+3x^2\right)$
4. $5x^5+x^3\left(x^2+2x\right)-5x^3-\left(2x^3-x\right)\left(3x^2+x-1\right)$
5. $3x^2\left(2x^2-x\right)-x^4-2\left(x^3+3x^2\right)+6x^2$
6. $-4x^2\left(x^3+3x^2-2x-3\right)-11x^3+\left(3x^2-2\right)\left(4x^2+x\right)+2x$
7. $2x^2+(x-2)\left(x^2-3x+1\right)-7x^4-\left(x^2-2\right)\left(2x^2+x+1\right)$
8. $x+3\left(x^3+x^2+2x\right)-x^2-x\left(3x^2+3x+6\right)$
9. $7+(x+2)\left(-2x^2+x-2\right)+8x^4-(4x-1)\left(2x^3+3x-3\right)$
10. $-4x^4+2x\left(3x^3-3x^2+x+2\right)+4x^3-\left(x^3+2\right)\left(-x^3+x^2+2x\right)$
11. $-x\left(x^3-2x\right)+6x+\left(-x^2+2\right)\left(2x^2-3x\right)-6x^2$
12. $-\left(2x^2-3x\right)\left(x^2+x-3\right)-4x^2+x^2\left(2x^2-x\right)+4x$
13. $-12x^6-\left(6x^3+4x\right)\left(-2x^3+x\right)+3x^3+\left(3x^2-2x\right)\left(x^3-2x\right)$
14. $-3x^4+2\left(x^3+x^2+2x\right)+3-x\left(2x^2+2x+4\right)$
15. $-x^2\left(-x^3+x^2+1\right)+3x^3+\left(x^2-x\right)\left(2x^3-3x\right)-2x^2$

SOLUZIONI

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[1]	$6x^5 - 6x$	[2]	$3x^3 - 3x$
[3]	$2x^3 - 2x$	[4]	$x^2 - x$
[5]	$5x^4 - 5x^3$	[6]	$-4x^5 + 4x^2$
[7]	$-9x^4 + 9x$	[8]	$-x^2 + x$
[9]	$-15x^2 + 15x$	[10]	$x^6 - x^5$
[11]	$-3x^4 + 3x^3$	[12]	$5x^2 - 5x$
[13]	$3x^5 - 3x^3$	[14]	$-3x^4 + 3$
[15]	$3x^5 - 3x^4$		