	somma per differenza		
1	(3a-2b)(3a+2b)	$9a^2 - 4b^2$	
2	$\left(\frac{4}{3}ab^2 - 5c^3\right)\left(\frac{4}{3}ab^2 + 5c^3\right)$	$\frac{16}{9}a^2b^4 - 25c^6$	
3	$\left(\frac{1}{2}x + \frac{7}{3}y^2\right) \left(\frac{1}{2}x - \frac{7}{3}y^2\right)$	$\frac{1}{4}x^2 - \frac{49}{9}y^4$	
4	$(3abc^2+3)(3abc^2-3)$	$9a^2b^2c^4 - 9$	
5	$\left(\frac{2}{3}m - \frac{4}{5}n^2\right)\left(\frac{2}{3}m + \frac{4}{5}n^2\right)$	$\frac{4}{9}m^2 - \frac{16}{25}n^4$	
6	$\left(3xy^2 + \frac{2}{5}x^2\right)\left(3xy^2 - \frac{2}{5}x^2\right)$	$9x^2y^4 - \frac{4}{25}x^4$	
7	$\left(1 - \frac{3}{4}a^2b\right)\left(1 + \frac{3}{4}a^2b\right)$	$1 - \frac{9}{16}a^4b^2$	
8	$\left(x^2y^3 - \frac{3}{8}m^2n\right)\left(x^2y^3 + \frac{3}{8}m^2n\right)$	$x^4y^6 - \frac{9}{64}m^4n^2$	
9	$(x+2y)(x-2y)(x^2+4y^2)$	$x^4 - 16y^4$	
10	$(a+3b)(a-3b)(a^2+9b^2)$	$a^4 - 81b^4$	
	quad	rato di binomio	
11	$(5a+2b)^2$	$25a^2 + 20ab + 4b^2$	
12	$(3xy^2-x^2)^2$	$9x^2y^4 - 6x^3y^2 + x^4$	
13	$\left(2a^2b - \frac{1}{2}ab^2\right)^2$	$4a^4b^2 - 2a^3b^3 + \frac{1}{4}a^2b^4$	
14	$\left(-\frac{2}{3}m^2 - \frac{1}{2}mn^2\right)^2$	$\frac{4}{9}m^4 + \frac{2}{3}m^3n^2 + \frac{1}{4}m^2n^4$	

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Algebra	Prodotti notevoli	PASSE
$15 \left(-a^2 - \frac{7}{4}b^2\right)^2$		$a^4 + \frac{7}{2}a^2b^2 + \frac{49}{16}b^4$
$(-ax^2 + 3x)^2$		$a^2x^4 - 6ax^3 + 9x^2$
$\boxed{ (7x^2yz - y^2z)^2 }$		$49x^4y^2z^2 - 14x^2y^3z^2 + y^4z^2$
$18 \left(\frac{3}{4}a^2b + \frac{1}{4}b^4c \right)^2$		$\frac{9}{16}a^4b^2 + \frac{3}{8}a^2b^5c + \frac{1}{16}b^8c^2$
$(-x^m + 3y^n)^2$		$x^{2m} - 6x^m y^n + 9y^{2n}$
$20 \left (2a^{3x+1} - 3b^{y-1})^2 \right $		$4a^{6x+2} - 12a^{3x+1}b^{y-1} + 9b^{2y-2}$
	cubo di binomio	
$(2a+b^2)^3$		$8a^3 + 12a^2b^2 + 6ab^4 + b^6$
$(3x-2)^3$		$27x^3 - 54x^2 + 36x - 8$
$ x-2y ^3$		$x^3 - 6x^2y + 12xy^2 - 8y^3$
$\boxed{ \left(-\frac{2}{3}x^2 - xy\right)^3 }$		$-\frac{8}{27}x^6 - \frac{4}{3}x^5y - 2x^4y^2 - x^3y^3$
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$$\frac{8}{27}x^{6} - \frac{4}{3}x^{5}y - 2x^{4}y^{2} - x^{3}y^{3} \\
\frac{1}{9}a^{2}b - \frac{1}{2}x^{2}\right)^{3} \qquad \frac{1}{729}a^{6}b^{3} - \frac{1}{54}a^{4}b^{2}x^{2} + \frac{1}{12}a^{2}bx^{4} - \frac{1}{8}x^{6} \\
\frac{1}{729}a^{6}b^{3} - \frac{1}{32}a^{2}bx^{2} + \frac{1}{12}a^{2}bx^{4} - \frac{1}{8}x^{6} \\
\frac{1}{729}a^{6}b^{3} - \frac{1}{32}a^{2}bx^{2} + \frac{1}{12}a^{2}bx^{4} - \frac{1}{8}x^{6} \\
\frac{1}{729}a^{6}b^{3} - \frac{1}{32}a^{2}bx^{2} + \frac{1}$$

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Prodotti notevoli



Algebro	i i i i i i i i i i i i i i i i i i i	I HOTEVOII PASSED
29	$\left(\frac{1}{4}ax^2 - \frac{2}{3}xb^2y\right)^3$	$\frac{1}{64}a^3x^6 - \frac{1}{8}a^2b^2x^5y + \frac{1}{3}ab^4x^4y^2 - \frac{8}{27}b^6x^3y^3$
30	$(a^m - 2b^n)^3$	$a^{3m} - 6a^{2m}b^n + 12a^mb^{2n} - 8b^{3n}$
	pote	nza di binomio
31	$(x+2y)^4$	$x^4 + 8x^3y + 24x^2y^2 + 32xy^3 + 16y^4$
32	$(2x+y)^5$	$32x^5 + 80x^4y + 80x^3y^2 + 40x^2y^3 + 10xy^4 + y^5$
33	$(2a-3b)^4$	$16a^4 - 96a^3b + 216a^2b^2 - 216ab^3 + 81b^4$
34	$(1-2x^2)^6$	$1 - 12x^2 + 60x^4 - 160x^6 + 240x^8 - 192x^{10} + 64x^{12}$
35	$(3a+b^2)^5$	$243a^{5} + 405a^{4}b^{2} + 270a^{3}b^{4} + 90a^{2}b^{6} + 15ab^{8} + b^{10}$
36	$(-x^2-2y)^6$	$x^{12} + 12x^{10}y + 60x^{8}y^{2} + 160x^{6}y^{3} + 240x^{4}y^{4} + 192x^{2}y^{5} + 64y^{6}$
37	$(-a^3+3)^4$	$a^{12} - 12a^9 + 54a^6 - 108a^3 + 81$
38	$(ab+2c)^4$	$a^4b^4 + 8a^3b^3c + 24a^2b^2c^2 + 32abc^3 + 16c^4$
39	$(a-2bc)^6$	$a^{6} - 12a^{5}bc + 60a^{4}b^{2}c^{2} - 160a^{3}b^{3}c^{3} + 240a^{2}b^{4}c^{4} + -192ab^{5}c^{5} + +64b^{6}c^{6}$
40	$\left(\frac{1}{2}x+y^2\right)^5$	$\frac{1}{32}x^5 + \frac{5}{16}x^4y^2 + \frac{5}{4}x^3y^4 + \frac{5}{2}x^2y^6 + \frac{5}{2}xy^8 + y^{10}$
	quadrato di trinomio	
41	$(a+b-2c)^2$	$a^2 + b^2 + 4c^2 + 2ab - 4ac - 4bc$

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Prodotti notevoli



Algebro	1100011	THOTEVOIL
42	$(2a-b-3c)^2$	$4a^2 + b^2 + 9c^2 - 4ab - 12ac + 6bc$
43	$(x^2 - 2x + 1)^2$	$x^4 - 4x^3 + 6x^2 - 4x + 1$
44	$\left \left(\frac{1}{2}m - 2n + 3q \right)^2 \right $	$\frac{1}{4}m^2 + 4n^2 + 9q^2 - 2mn + 3mq - 12nq$
45	$\left(\frac{2}{3}a^2 - 3a + 2\right)^2$	$\frac{4}{9}a^4 - 4a^3 + \frac{35}{3}a^2 - 12a + 4$
46	$(a^2 - bc + 2c)^2$	$a^4 + b^2c^2 + 4c^2 - 2a^2bc + 4a^2c - 4bc^2$
47	$\left(2x-3y-\frac{1}{4}\right)^2$	$4x^2 + 9y^2 + \frac{1}{16} - 12xy - x + \frac{3}{2}y$
48	$(4a^2 + 3b^2 - 5c)^2$	$16a^4 + 9b^4 + 25c^2 + 24a^2b^2 - 40a^2c - 30b^2c$
49	$\left(-\frac{2}{3}x^2 - 3xy - z\right)^2$	$\frac{4}{9}x^4 + 9x^2y^2 + z^2 + 4x^3y + \frac{4}{3}x^2z + 6xyz$
50	$(a^m + b^n - b^p)^2$	$a^{2m} + b^{2n} + b^{2p} + 2a^m b^n - 2a^m b^p - 2b^{n+p}$
	eser	cizi di riepilogo
51	(x-2y+1)(x-2y-1)	$x^2 - 4xy + 4y^2 - 1$
52	$\left(\frac{1}{2}a - b^2 + 2c\right)\left(\frac{1}{2}a + b^2 + 2c\right)$	$\frac{1}{4}a^2 + 2ac + 4c^2 - b^4$
53	$\left(-\frac{9}{2}xy-\frac{1}{4}x^2y^2\right)^2$	$\frac{81}{4}x^2y^2 + \frac{9}{4}x^3y^3 + \frac{1}{16}x^4y^4$
54	$\left(\frac{3}{7}a^2b - \frac{7}{2}b^2c^2\right)^2$	$\frac{9}{49}a^4b^2 - 3a^2b^3c^2 + \frac{49}{4}b^4c^4$
55	$\left(\frac{3}{2}x^2y - \frac{2}{3}xy^2\right)^3$	$\frac{27}{8}x^6y^3 - \frac{9}{2}x^5y^4 + 2x^4y^5 - \frac{8}{27}x^3y^6$

56	$\left(\frac{7}{2}ab^2x - \frac{1}{3}xb\right)^3$	$\frac{343}{8}a^3b^6x^3 - \frac{49}{4}a^2b^5x^3 + \frac{7}{6}ab^4x^3 - \frac{1}{27}b^3x^3$
57	$(3m-2n^2)^6$	$729m^{6} - 2916m^{5}n^{2} + 4860m^{4}n^{4} - 4320m^{3}n^{6} + 2160m^{2}n^{8} - 576mn^{10} + 64n^{12}$
58	$\left(\frac{1}{2}x + y^2\right)^4$	$\frac{1}{16}x^4 + \frac{1}{2}x^3y^2 + \frac{3}{2}x^2y^4 + 2xy^6 + y^8$
59	$(2x^2y - xy^2 - x)^2$	$4x^4y^2 + x^2y^4 + x^2 - 4x^3y^3 - 4x^3y + 2x^2y^2$
60	$\left(\frac{2}{5}x - y^2 + \frac{3}{2}xy\right)^2$	$\frac{4}{25}x^2 + y^4 + \frac{9}{4}x^2y^2 - \frac{4}{5}xy^2 + \frac{6}{5}x^2y - 3xy^3$

espressioni con prodotti notevoli		
61	$(2a-1)^2 - (a+2)^2 + (a+4)^2$	$4a^2 + 13$
62	$\left(a + \frac{1}{3}x\right)^2 - \left(a - \frac{1}{2}x\right)\left(a + \frac{1}{2}x\right) + \frac{11}{36}x^2$	$\frac{2}{3}ax + \frac{2}{3}x^2$
63	$(2x-3)^3 + 2x(2x-5)^2 - 4(2x-1)^2(x-3) + 15$	$52x - 12x^2$
64	$\left(\frac{1}{3}x - y\right)^2 \left(\frac{1}{3}x + y\right) - \left(\frac{1}{3}x + y\right)^3$	$-\frac{4}{9}x^2y - \frac{4}{3}xy^2$
65	$\frac{1}{3}(x+b)^2 - \frac{4}{9}b^2 + \left(\frac{1}{6}x + \frac{1}{3}b\right)\left(\frac{1}{3}b - \frac{1}{6}x\right)$	$\frac{2}{3}bx + \frac{11}{36}x^2$
66	$(x+y)^2(x-y)^2 - x^3(x+2y) + [x^2 - (x-y)^2](x+y)^2$	x^2y^2
67	$[(2-ab)^2 - (ab-1)(ab+1)](5+4ab) - (5-4ab)(5+4ab)$	0
68	$7(4+a)(a-4) + 2(a-2)(a-3) + 5(a+1)^2$	$14a^2 - 95$
69	$(2x^2 + y)^2 - (2x^2 + y)(2x^2 - y) - 4y(x)^2$	$2y^2$

Algebra	Prodotti notevoli	PASSED
70	$(2x^2 + y)(2x^2 - y) + (2x^2 + y)^2 - (2x^2 - y)^2 + 4x^2y: \left(-\frac{1}{2}\right)$	$4x^4 - y^2$
71	$(a^2 - 3b^2)^2 + \left(2a^2 - \frac{1}{3}b^2\right)\left(2a^2 + \frac{1}{3}b^2\right) - \left(\frac{4}{3}a^2 - 3b^2\right)^2$	$\frac{29}{9}a^4 - \frac{1}{9}b^4 + 2a^2b^2$
72	$(x^3 + y^3)(x^3 - y^3) + (x + y)^3(x - y)^3 - 3x^2y^2(x + y)(y - x) + 8y^7:4y$	2x ⁶
73	$a^{2}(a-3)(a+2) + (a^{2}-3a+2)^{2} - 2a(a-1)^{3} + a(a^{2}+10)$	$a^2 + 4$
74	$(a+b-2)^2 - (a+b+2)^2 - 4(a+b+2) + 12(a+b)$	-8
75	$\left(a + \frac{1}{3}b\right)\left(\frac{1}{3}b - a\right) - \left(b - \frac{1}{2}a\right)^2 - ab$	$-\frac{5}{4}a^2 - \frac{8}{9}b^2$
76	$(1+a^2)^3 - (1+a^3)^2 - 3a^2(1+a)(1-a) - 2a^3(3a+1)$	$-4a^3$
77	(x-y+z)(x-y-z) - (x+y+z)(x-y-z) + 2y(x-y)	2xy
78	$(x^2 - x^4)(x^2 + x^4) - (x^2 - 1)^2 + [(x + 1)(x - 1)(x^2 + 1) + 2]^2$	$2x^4 + 2x^2$
79	$\left(\frac{2}{5}a - b^2\right)\left(b^2 + \frac{2}{5}a\right) - \left[\left(\frac{1}{2}a + \frac{2}{3}b\right)^3 - \frac{8}{27}b^3 - \frac{1}{6}ab(3a + 4b)\right] : \frac{25}{32}a$	-b ⁴
80	$\left(\frac{4}{3}ab+3\right)\left(3-\frac{4}{3}ab\right)+a\left(\frac{4}{3}a+\frac{2}{3}b^2\right)^2-(4a+6)\left(\frac{4}{9}a^2+1-\frac{2}{3}a\right)+\frac{5}{9}ab^4$	$3 + ab^4$
81	$[-9xy(3y^2+1)+(-x^2y-1)^2-(3x+9xy^2)(-3y)-(1+x^2y)^2]:x^2$	0