

Addieren und Subtrahieren mit Variablen

Lösungsblatt

1	$4a^3 + (3a^2 + a^3) - 4a^2 = 4a^3 + 3a^2 + a^3 - 4a^2 = 5a^3 - a^2$
2	$(5e + 3e^2) + (3e^2 - e) - 2e = 5e + 3e^2 + 3e^2 - e - 2e = 6e^2 + 2e$
3	$15g^3 - (4g + 5g^3 - 2g) + 7g^3 = 15g^3 - 4g - 4g^3 + 2g + 7g^3 = 18g^3 - 2g$
4	$(2k^2 - 3k) - (7k + 5k^2) + (k^2 - k) = 2k^2 - 3k - 7k - 5k^2 + k^2 - k = -2k^2 - 11k$
5	$2m^2 + 5m - 4m^3 + (7m^2 + 4m^3 + m) = 2m^2 + 5m - 4m^3 + 7m^2 + 4m^3 + m = 9m^2 + 6m$
6	$7p^2 - (5q^3 - 3q^3 + 2p^2 - q^3) = 7p^2 - 5q^3 + 3q^3 - 2p^2 + q^3 = 5p^2 - q^3$
7	$5r^2 + 3r + (7r^3 - 5r - r^2) + 2r = 5r^2 + 3r + 7r^3 - 5r - r^2 + 2r = 7r^3 + 4r^2$
8	$8t - (9t^2 + 5t) - (4t^2 - 2t) = 8t - 9t^2 - 5t - 4t^2 + 2t = -13t^2 + 5t$
9	$(2v^5 - 7v^4) - (3v^5 - 4v^4) + v^4 = 2v^5 - 7v^4 - 3v^5 + 4v^4 + v^4 = -v^5 - 2v^4$
10	$x^2 + 12x^3 + (3x^2 - 5x^3) - (x^3 + x^2) = x^2 + 12x^3 + 3x^2 - 5x^3 - x^3 - x^2 = 6x^3 + 3x^2$
11	$5a^3 - (4a^3 + a^2) + (2a^2 - 7a^3) = 5a^3 - 4a^3 - a^2 + 2a^2 - 7a^3 = -6a^3 + a^2$
12	$15m - [(3m^2 - 5m - 2m^2) - 8m] = 15m - 3m^2 + 5m + 2m^2 + 8m = -m^2 + 28m$
13	$5e^2 - [(3e + 2e^2) + (3e^2 - e)] = 5e^2 - 3e - 2e^2 - 3e^2 + e = -2e$
14	$(3g^3 - 2g) - (7g^3 - 7g) + g = 3g^3 - 2g - 7g^3 + 7g + g = -4g^3 + 6g$
15	$[2i - i^2 - (3i - 4i^2)] + i = 2i - i^2 - 3i - 4i^2 + i = -5i^2$
16	$3x - [x^3 - (x^3 - x) + 2x] - x^3 = 3x - x^3 + x^3 - x - x^3 - x = -x^3 + x$

Lösungen				$-m^2 + 28m$	F	$5p^2 - q^3$	I	$-5i^2$	H	$-6a^3 + a^2$	N
$-2k^2 - 11k$	H	$-x^3 + x$	!	$-13t^2 + 5t$	T	$-2e$	A	$18g^3 - 2g$	T	$7r^3 + 4r^2$	S
$-v^5 - 2v^4$	E	$6e^2 + 2e$	A	$9m^2 + 6m$	E	$5a^3 - a^2$	M	$6x^3 + 3x^2$	I	$-4g^3 + 6g$	C

1	2	3	4	5
M	A	T	H	E

6	7	8
I	S	T

9	10	11	12	13	14	15	16
E	I	N	F	A	C	H	!

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