

Rechnen mit Termen

Herausheben

a) $4a^2 + 2a =$ b) $24x^3 - 6x^2 - 4x =$ c) $20a^2b^3 - 15a^2b + 5ab^2$

Multiplikation – Binomische Formeln

1 a	$(3x + 4) \cdot 2 =$	b	$4 \cdot (4a - 3) =$	c	$3 \cdot (x - 2) - (x - 1) =$
2 a	$(c + 3d) \cdot (-2) =$	b	$(-4) \cdot (2x - 4d) =$	c	$(-3) \cdot (3a + 2b) + (a + 2b) \cdot (-1) =$
3 a	$(y + 3) \cdot (y + 4) =$	b	$(2a + 3) \cdot (a - 4) =$	c	$(3e - 5f) \cdot (2g - 3h) =$
4 a	$(2a + 4) \cdot (2a + 4) =$	b	$(5x + 3)^2 =$	c	$(8 - 2x)^2 =$
5 a	$(4a - 1) \cdot (4a + 1) =$	b	$(4 - 2x) \cdot (4 + 2x) =$	c	$3 \cdot (2 - 3x)^2 =$
6 a	$(x + 5)^2 + (x - 5)^2 =$	b	$(4 + a)^2 - (3 - a)^2 =$	c	$(a^2 - 3)^2 =$

Lösung: a) $2a \cdot (2a + 1)$ b) $2x \cdot (12x^2 - 3x - 2)$ c) $5ab \cdot (4ab^2 - 3a + b)$

1 a) $6x + 8$; b) $16a - 12$; c) $2x - 5$
2 a) $-2c - 6d$; b) $-8x + 16d$ c) $-10a - 8b$
3 a) $y^2 + 7y + 12$; b) $2a^2 - 5a - 12$; c) $6eg - 9eh - 10fg + 15fh$;
4 a) $4a^2 + 16a + 16$; b) $25x^2 + 30x + 9$; c) $64 - 32x + 4x^2$;
5 a) $16a^2 - 1$; b) $16 - 4x^2$; c) $12 - 36x + 27x^2$;
6 a) $2x^2 + 50$ b) $14a + 7$ c) $a^4 - 6a^2 + 9$