

Lösungen zu den Übungen zum Ausmultiplizieren 3

Multipliziere aus und fasse zusammen!

$2 \cdot (3x + 4y) + 6x$	$6x + 8y + 6x =$ $12x + 8y$
$x \cdot (3x - 5x^2) + 4x^2$	$3x^2 - 5x^3 + 4x^2 =$ $7x^2 - 5x^3$
$3x \cdot (2x - 5) - 9x^2 + 6x$	$6x^2 - 15x - 9x^2 + 6x =$ $-3x^2 - 9x$
$2x^2 - 3x \cdot (9 + 2x)$	$2x^2 - 27x - 6x^2 =$ $-4x^2 - 27x$
$2x^2 + 2x \cdot (6x^3 - 4x^2 + 2x + 8) - 5x^3$	$2x^2 + 12x^4 - 8x^3 + 4x^2 + 16x - 5x^3 =$ $12x^4 - 13x^3 + 6x^2 + 16x$
$5x^3 + 4x \cdot (4x^2 + 3x + 2) - 10x$	$5x^3 + 16x^3 + 12x^2 + 8x - 10x =$ $21x^3 + 12x^2 - 2x$
$6b - 2 \cdot (6a - 5b)$	$6b - 12a + 10b =$ $-12a + 16b$
$8 \cdot (-6a + 9b) + 5 \cdot (2a - 4b)$	$-48a + 72b + 10a - 20b =$ $-38a + 52b$
$-2 \cdot (-3x + 7y) + 4 \cdot (8x - 10y)$	$6x - 14y + 32x - 40y =$ $38x - 54y$
$-x \cdot (2x - 5y) + 4y \cdot (3x - 8y)$	$-2x^2 + 5xy + 12xy - 32y^2 =$ $-2x^2 + 17xy - 32y^2$
$-x^2 \cdot (-3x - 4y) - 4 \cdot (3x^3 - 6x^2y)$	$3x^3 + 4x^2y - 12x^3 + 24x^2y =$ $-9x^3 + 28x^2y$
$3x^3 \cdot (4x + 2y - 6) - 6y \cdot (-2x^3 - 3y) + 18x^3$	$12x^4 + 6x^3y - 18x^3 + 12x^3y + 18y^2 + 18x^3 =$ $12x^4 + 18x^3y + 18y^2$
$8x - 2x \cdot (-3x + 5) + 4x \cdot (-6 + 5x)$	$8x + 6x^2 - 10x - 24x + 20x^2 =$ $26x^2 - 26x$
$-4x^2 + 2x^2 \cdot (6 - 2y) - 8x \cdot (x - 12xy) + 6x^2y$	$-4x^2 + 12x^2 - 4x^2y - 8x^2 + 96x^2y + 6x^2y =$ $98x^2y$