

Ausklammern / Faktorisieren 3 (Lösung)



1. Klammere aus.

$$49x + 7y^2 + 7x^2 = 7(7x + y^2 + x^2)$$

$$3x - 39x^2 = 3x(1 - 13x)$$

$$8a - 64 = 8(a - 8)$$

$$44a^2 + 36b + 16c^3 = 4(11a^2 + 9b + 4c^3)$$

$$16v^2 - 8vw + w^2 = (4v - w)^2$$

$$27x^3 + (-36x^2) + 9y = 9(3x^3 - 4x^2 + y)$$

$$6a - 42 = 6(a - 7)$$

$$x^4 - 5x^2 + 3x^6 + (-15x^4) = x^2(x^2 - 5 + 3x^4 - 15x^2)$$

$$3a^2 + 9a + a^6 + 3a^5 = a(3a + 9 + a^5 + 3a^4)$$

2. Verbinde äquivalente Terme.

$45y + 9y^2$	5x(y - 8)
$5xy - 40x$	$34a^3 - 3b^2$
$8x(a^2 + 4y^3)$	$16y^2 - 9x^3$
$(4y + 9x^3)(4y - 9x^3)$	$8a^2x + 32xy^3$
$34a^3 + 0b - 3b^2$	$9y(5 + y)$