
Binomische Formeln

a) $(x - 9)^2 =$

b) $(3x + 10)^2 =$

c) $(5 - 6y)^2 =$

d) $(8a + 7b)(8a - 7b) =$

e) $(-4x - 5y)^2 =$

f) $(-3a + 6b)^2 =$

g) $(7b + 2a)(2a - 7b) =$

Binomische Formeln (LÖSUNG)

$$(x - 9)^2 = (x)^2 - 2 \cdot x \cdot 9 + (9)^2 = x^2 - 18x + 81$$

$$(3x + 10)^2 = (3x)^2 + 2 \cdot 3x \cdot 10 + (10)^2 = 9x^2 + 60x + 100$$

$$(5 - 6y)^2 = (5)^2 - 2 \cdot 5 \cdot 6y + (6y)^2 = 25^2 - 60y + 36y^2$$

$$(8a + 7b)(8a - 7b) = (8a)^2 - (7b)^2 = 64a^2 - 49b^2$$

$$(-4x - 5y)^2 = (-4x)^2 - 2 \cdot (-4x) \cdot 5y + (5y)^2 = 16x^2 + 4xy + 25y^2$$

$$(-3a + 6b)^2 = (-3a)^2 + 2 \cdot (-3a) \cdot 6b + (6b)^2 = 9a^2 - 36ab + 36b^2$$

$$(7b + 2a)(2a - 7b) = (2a + 7b)(2a - 7b) = (2a)^2 - (7b)^2 = 4a^2 - 49b^2$$