

- Beweise -

891) a) $2a + 2b + 2c = 2(a + b + c)$

δ) $-5x + 10y - 10 = -5(x - 2y + 2)$

g) $ay - by - y = y(a - b - 1)$

892)

a) $4a + 6ab - 2ac = 2a(2 + 3b - c)$

δ) $xy - x^2y + xy^2 = xy(1 - x + y)$

g) $8ax^2 + 12a^2x^2y - 20a^2x^2y^2 = 4ax^2(2 + 3ay - 5ay^2)$

894)

δ) $9x^2 + 6x + 1 = (3x)^2 + 2 \cdot 3x \cdot 1 + 1^2 = (3x + 1)^2$

ε) $16 - 8n + n^2 = 4^2 - 2 \cdot 4 \cdot n + n^2 = (4 - n)^2$

g) $9a^2 - 60a + 100 = (3a)^2 - 2 \cdot 3a \cdot 10 + 10^2 = (3a - 10)^2$

f) $x^2 + 4xy + 4y^2 = x^2 + 2 \cdot x \cdot 2y + (2y)^2 = (x + 2y)^2$

895)

δ) $49 + a^2 - 14a = 7^2 + a^2 - 2 \cdot 7 \cdot a = (7 - a)^2 = (7 - a)(7 - a)$

g) $w^4 - w^2 + 0,25 = (w^2)^2 - 2 \cdot 0,5w^2 + 0,5^2 = (w^2 - 0,5)^2 = (w^2 - 0,5)(w^2 - 0,5)$

Lösung 892 b, ε
894 a, b