

Binomische Formeln – ja oder nein? - Lösungen

- a) $x^2 + 2xy + y^2 = (x + y)^2$
- b) $4a^2 + 12ab + 9b^2 = (2a + 3b)^2$
- c) $4s^2 + 15st + 25t^2 = (\text{geht nicht})$
- d) $2x^2 - 4xy + 2y^2 = 2(x - y)^2$
- e) $144r^2 - 120ru + 25u^2 = (12r - 5u)^2$
- f) $25u^2 - 120uw - 144w^2 = (\text{geht nicht})$
- g) $9x^2 - 6x + 1 = (3x - 1)^2$
- h) $\frac{9}{16}x^2 - \frac{3}{2}x + 1 = \left(\frac{3}{4}x - 1\right)^2$
- i) $\frac{1}{16}w^2 + 2w + 16 = \left(\frac{1}{4}w + 4\right)^2$
- j) $1,21f^2 - 1,98fg + 0,81g^2 = (1,1f - 0,9g)^2$
- k) $25s^2 - 144r^2 = (5s + 12r)(5s - 12r)$
- l) $144e^2 - 9g^2 = (12e + 3g)(12e - 3g)$
- m) $50a^2 - 8b^2 = 2(5a + 2b)(5a - 2b)$
- n) $75w^2 - 12x^2 = 3(5w + 2x)(5w - 2x)$
- p) $1,44m^2 - 0,09t^2 = (1,2m - 0,3t)(1,2m + 0,3t)$