

Ansatz: $(a+b)^2 = a^2 + 2ab + b^2$ (Binom)

Ergänze die folgenden Ausdrücke:

(1) a) $(x+1)^2 = (x+1)(x+1) = x^2 + x + x + 1 = ..$

b) $(x-3)^2 = (x-3)(x-3) =$

c) $(x-\frac{3}{2})^2 = (x-\frac{3}{2})(x-\frac{3}{2}) =$

(2) a) $x^2 + 2x + 1 = (\quad)^2$

b) $x^2 + 3x + \frac{9}{4} = (\quad)^2$

c) $x^2 + \frac{1}{2}x + \frac{1}{16} = (\quad)^2$

(3) a) $x^2 + 8x + \quad = (x+4)^2$

b) $x^2 + \quad = (x+\frac{1}{3})^2$

c) $x^2 \quad = (x-2)^2$

(4) a) $x^2 + 4x + \quad = (\quad)^2$

b) $x^2 + x + \quad = (\quad)^2$

c) $x^2 + \frac{1}{2}x + \quad = (\quad)^2$