

We have

eq:Square

$$a^2 + 2ab + b^2 = (a + b)^2, \quad (1)$$

for $a, b \in \mathbb{C}$. Also,

$$|x|^2 + |y|^2 = (x + y)(\overline{x + y}). \quad (2)$$

$$\alpha^2 - 2\alpha\beta + \beta^2 = (\alpha - \beta)^2. \quad (3)$$

formula (3) is a consequence of formula (1).