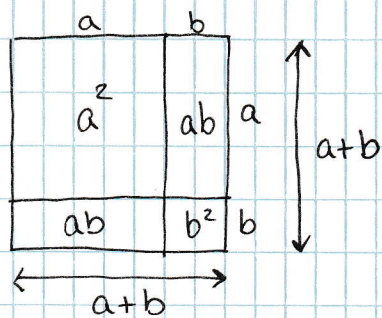


Nevezetes szorzatok - bizonyítás

$$(a+b)^2 = a^2 + 2ab + b^2$$

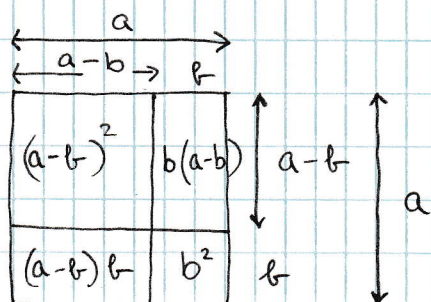


$$T(a+b) = (a+b)(a+b) = (a+b)^2$$

$$T(a+b) = a^2 + ab + ab + b^2 = a^2 + 2ab + b^2$$

$$(a+b)^2 = a^2 + 2ab + b^2$$

$$(a-b)^2 = a^2 - 2ab + b^2$$

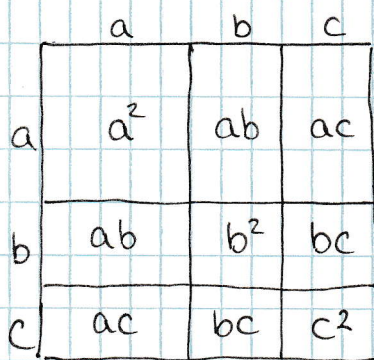


$$T_a = a^2$$

$$\begin{aligned} T_a &= (a-b)^2 + b(a-b) + b(a-b) + b^2 = \\ &= (a-b)^2 + ba - b^2 + ba - b^2 + b^2 = \\ &= (a-b)^2 + 2ab - b^2 \end{aligned}$$

$$\begin{aligned} a^2 &= (a-b)^2 + 2ab - b^2 \\ (a-b)^2 &= a^2 - 2ab + b^2 \end{aligned}$$

$$(a+b+c)^2 = a^2 + b^2 + c^2 + 2ab + 2ac + 2bc$$



$$T_{abc} = (a+b+c)^2$$

$$T_{abc} = a^2 + 2ab + 2ac + 2bc + b^2 + c^2$$

$$(a+b+c)^2 = a^2 + b^2 + c^2 + 2ab + 2ac + 2bc$$