

Squaring the polynomial $(a + b)$:

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$$(a + b)^2 = (a + b) \cdot (a + b)$$

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$$\begin{aligned}(a + b)^2 &= (\textcolor{red}{a} + b) \cdot (\textcolor{red}{a} + b) \\ &= \textcolor{red}{a}^2\end{aligned}$$

Squaring the polynomial $(a + b)$:

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

Squaring the polynomial $(a + b)$:

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

Squaring the polynomial $(a + b)$:

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