

# Aligned mathematics

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Some examples of aligned mathematics:

$$\begin{aligned}(x + h)^2 - x^2 &= x^2 + 2xh + h^2 - x^2 \\ &= 2xh + h^2 \\ &= h(2x + h)\end{aligned}$$

Some explanatory text:

$$\begin{aligned}(x + h)^2 - x^2 &= x^2 + 2xh + h^2 - x^2 && \text{(by distributivity)} && (1) \\ &= 2xh + h^2 && \text{(by subtraction)} && (2) \\ &= h(2x + h) && \text{(by factorisation)} && (3)\end{aligned}$$