

# Aligned mathematics

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March 25, 2019

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:

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