

Properties of convolution

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Associativity

$$f * (h_1 * h_2) = (f * h_1) * h_2 ?$$

Tips: $k = m - n$

Distributivity

$$f * (h_1 + h_2) = f * h_1 + f * h_2 ?$$

Commutativity

$$f * h = h * f ?$$

Tips: $k = x - m$