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

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$$(a-b)^2 = a^2 - 2ab + b^2, (a+b)(c+d) \\ = ac + ad + bc + bd,$$

$$(a+b)^3 = a^3 + 3a^2b + 3ab^2 + b^3,$$

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