## $\sum$

$$(X+1)^3 = (X+1)(X+1)(X+1)$$
$$= (X+1)(X^2+2X+1)$$
$$= X^3 + 3X^2 + 3X + 1$$

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=  $(X+1)(X^2+2X+1)$   
=  $X^3 + 3X^2 + 3X + 1$  (1)