

Algebra 2

8-06B the Binomial Theorem

Binomial Theorem

$$(a + b)^n = {}_nC_0 a^{n-0} b^0 + {}_nC_1 a^{n-1} b^1 + \cdots + {}_nC_r a^{n-r} b^r$$
$$= \sum_{r=0}^n {}_nC_r a^{n-r} b^r$$

Expand $(c - 4)^5$

Expand $(w^3 - 3)^4$

Expand $(x + 2)^3$

Find the coefficient of the x^4 term in $(x - 3)^7$.

Find the coefficient of the x^5 term in $(x - 2)^{10}$.

445 #47, 48, 49, 51, 53, 55, 56, 57, 58, 59, 67, 71, 83, 85, 87 = 15