

18. Binomial Theorem

Very Short Answer

1. Question

Write the number of terms in the expansion of $(2 + \sqrt{3}x)^{10} + (2 - \sqrt{3}x)^{10}$.

Answer

Given:

$$(x + a)^n = \sum_{k=0}^n \binom{n}{k} x^k a^{n-k}$$

$$(2 + \sqrt{3}x)^{10} = \sum_{k=0}^{10} \binom{10}{k} 2^k (\sqrt{3}x)^{10-k}$$

$$= \binom{10}{0} 2^0 (\sqrt{3}x)^{10} + \binom{10}{1} 2^1 (\sqrt{3}x)^{10-1} + \dots + \binom{10}{9} 2^9 (\sqrt{3}x)^{10-9} + \binom{10}{10} 2^{10} (\sqrt{3}x)^{10-10} \quad (1)$$

$$(2 - \sqrt{3}x)^{10} = \sum_{k=0}^{10} \binom{10}{k} 2^k (-\sqrt{3}x)^{10-k}$$

$$= \binom{10}{0} 2^0 (-\sqrt{3}x)^{10} + \binom{10}{1} 2^1 (-\sqrt{3}x)^{10-1} + \dots + \binom{10}{9} 2^9 (-\sqrt{3}x)^{10-9} + \binom{10}{10} 2^{10} (-\sqrt{3}x)^{10-10} \quad (2)$$

Add both equations:

$$\begin{aligned} & (2 + \sqrt{3}x)^{10} + (2 - \sqrt{3}x)^{10} \\ &= \binom{10}{0} 2^0 (\sqrt{3}x)^{10} + \binom{10}{1} 2^1 (\sqrt{3}x)^{10-1} + \dots + \binom{10}{9} 2^9 (\sqrt{3}x)^{10-9} \\ & \quad + \binom{10}{10} 2^{10} (\sqrt{3}x)^{10-10} + \\ & \quad \binom{10}{0} 2^0 (-\sqrt{3}x)^{10} + \binom{10}{1} 2^1 (-\sqrt{3}x)^{10-1} + \dots + \binom{10}{9} 2^9 (-\sqrt{3}x)^{10-9} \\ & \quad + \binom{10}{10} 2^{10} (-\sqrt{3}x)^{10-10} \end{aligned}$$

The even terms; i.e. $k=1,3,5,7 \text{ \& } 9$ cancel each other

So, we are left with only terms with $k=0,2,4,6,8 \text{ \& } 10$

So total number of terms = 6

2. Question

Write the sum of the coefficients in the expansion $(1 - 3x + x^2)^{111}$.

Answer

Given:

$$(x + a)^n = \sum_{k=0}^n \binom{n}{k} x^{n-k} a^k$$

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Masroor Mohajerani



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his statement was a sound judgment back in the day Here the story of the Binomial Theorem is presented in all its glory from the early days in India the Moslem world and China as an essential tool for root extraction through Newton s generalisation and its central role in infinite series expansions in the 17th and 18th centuries and to its rigorous foundation in the 19th The exposition is well organised and fairly complete with all the necessary details yet still readable and understandable for those with a limited mathematical background say at the Calculus level or just below that The present book with its many citations from the literature will be of interest to anyone concerned with the history or foundations of mathematics

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