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NCERT Solutions for Class 11 Maths Chapter 8 Binomial Theorem

Answer: The chapter of the Binomial Theorem is one of the most important chapters for class 11 maths. Students can expect a total of about 30 marks from this topic in their examination. The Binomial Theorem states that the nth power of (a+b) can be expressed as the sum of n+1 terms of the same form, where n is a positive integer.

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2. When n is odd: Let $n = 2m + 1$, where m is a positive integer. In the expansion of $(a + b)^n$ the total number of terms will be $(m + 2)$. The middle term in the expansion of $(a + b)^n$ will be $(m + 1)$ th and $(m + 2)$ th term or $(n + 1)/2$ th and $((n + 3)/2)$ th term.

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NCERT Class 11 Maths Solutions of Binomial Theorem helps you cover the entire syllabus in a smart way. Class 11 Maths NCERT Solutions Chapter 8 Binomial Theorem Students will be well versed with the history of the Binomial Theorem, statement, and proof of the binomial theorem for positive integral indices, Pascal's triangle.

NCERT Solutions for Class 11 Maths Chapter 8 Binomial Theorem

NCERT solutions for class 11 Maths Chapter 8 Binomial theorem Chapter 8 Binomial Theorem class 11 is very important chapter which tells/shows how all basic formulas were created using Binomial theorem. We have provided Binomial theorem class 11 NCERT solutions – step by step Explained.

NCERT solutions for class 11 Maths Chapter 8 Binomial Theorem

The NCERT Solutions Class 11 Chapter 8 Binomial Theorem can be downloaded at BYJU'S without any hassle. Practising these solutions can help the students clear their doubts as well as to solve the problems faster. Students can learn new tricks to answer a particular question in different ways giving them an edge with the exam preparation.

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Solution: From binomial theorem expansion we can write as $(1 - 2x)^5 = 5 C_0 (1)^5 - 5 C_1 (1)^4 (2x) + 5 C_2 (1)^3 (2x)^2 - 5 C_3 (1)^2 (2x)^3 + 5 C_4 (1)^1 (2x)^4 - 5 C_5 (2x)^5 = 1 - 5 (2x) + 10 (4x)^2 - 10 (8x)^3 + 5 (16 x^4) - (32 x^5) = 1 - 10x + 40x^2 - 80x^3 - 32x^5$. Solution: From binomial theorem, given equation can be expanded as. $3. (2x - 3)^6$. Solution:

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In the expansion, the first term is raised to the power of the binomial and in each subsequent terms the power of arduces by one with simultaneous increase in the power of bby one, till power of bbecomes equal to the power of binomial, i.e., the power of ais nin the first term, $(n - 1)$ in the second term and so on ending with zero in the last term.

BINOMIAL THEOREM - NCERT

NCERT Solutions of all questions, examples of Chapter 8 Class 11 Binomial Theorem available free at teachoo. You can check out the answers of the exercise questions or the examples, and you can also study the topics. Let's see what is binomial theorem and why we study it. We know that $(a + b)^2 = a^2 + b^2 + ab$ $(a + b)^3 = a^3 + b^3 + 3a^2 b + 3ab^2$

Binomial Theorem Class 11 Chapter 8 - NCERT Solutions Maths

Ans: NCERT Solutions for Class 11 Maths Chapter 8 Binomial Theorem Exercise 8.2 is based on the topic General and Middle Terms. NCERT Solutions have been carefully designed with great efforts as per the latest CBSE syllabus. NCERT Solutions contain detailed step-by-step explanations of all the problems in the NCERT textbook exercises.

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It is known that $(r + 1)$ th term, $(Tr+1)$, in the binomial expansion of $(a + b)^n$ is given by. Assuming that x^5 occurs in the $(r + 1)$ th term of the expansion $(x + 3)^8$, we obtain Comparing the indices of x in x^5 and in $Tr + 1$, we obtain $r = 3$

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Solution. We hope the NCERT Solutions for Class 11 Maths Chapter 8 Binomial Theorem Ex 8.2 help you. If you have any query regarding NCERT Solutions for Class 11 Maths Chapter 8 Binomial Theorem Ex 8.2, drop a comment below and we will get back to you at the earliest.

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Using Binomial Theorem, indicate which number is larger $\sqrt[10]{10000}$ or $\sqrt[10000]{10}$

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Using Binomial Theorem, evaluate $(102)^5$. Answer: 102 can be expressed as the sum or difference of two numbers whose powers are easier to calculate and then, Binomial Theorem can be applied. It can be written that, $102 = 100 + 2$.

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