

Binomial Theorem Practice Problems -1

Part-1: Single Correct

- The co-efficient of x^{53} in the expansion $\sum_{r=0}^{100} {}^{100}C_r (x-3)^{100-r} 2^r$ is
 (A) ${}^{100}C_{53}$ (B) $- {}^{100}C_{53}$
 (C) ${}^{65}C_{53}$ (D) ${}^{100}C_{65}$
- The value of $(\sqrt{5}+1)^5 - (\sqrt{5}-1)^5$ is
 (A) 252 (B) 352
 (C) 452 (D) 532
- The coefficient of $(3r)^{\text{th}}$ term and coefficient of $(r+2)^{\text{th}}$ term in the expansion of $(1+x)^{2n}$ are equal then (where $r > 1$, $n > 2$, are positive integers)
 (A) $r = n/2$ (B) $r = n/3$
 (C) $r = \frac{n+1}{2}$ (D) $r = \frac{n-1}{2}$
- The term independent of x in the expansion of $\left(\frac{4}{3}x^2 - \frac{3}{2x}\right)^8$ is
 (A) 5^{th} (B) 6^{th}
 (C) 7^{th} (D) 8^{th}
- If the third term in the binomial expansion of $(1+x)^m$ is $-\frac{1}{8}x^2$, then the rational value of m is
 (A) 2 (B) $1/2$
 (C) 3 (D) 4
- The last term in the binomial expansion of $\left(\sqrt[3]{2} - \frac{1}{\sqrt{2}}\right)^{100}$ is $\left(\frac{1}{3\sqrt[3]{9}}\right)^{100,8}$. Then the 5th term from the beginning is
 (A) $4 \cdot {}^{10}C_5$ (B) $2 \cdot {}^{10}C_5$
 (C) $\frac{1}{2} \cdot {}^{10}C_5$ (D) none of these
- In the binomial expansion of $(a-b)^n$, $n \geq 5$, the sum of the 5th and 6th terms is zero. Then a/b equals
 (A) $\frac{n-4}{5}$ (B) $\frac{n-5}{6}$
 (C) $\frac{5}{n-4}$ (D) $\frac{6}{n-5}$
- The number of real negative terms in the binomial expansion of $(1+ix)^{2n-1}, n \in \mathbb{N}, x > 0$, is
 (A) n (B) $n+1$
 (C) $n-1$ (D) $2n$
- The coefficient of t^{22} in the expansion of $(1+t^2)^7(1+t^{12})(1+t^{24})$ is
 (A) ${}^{12}C_5 + 2$ (B) ${}^{12}C_5$
 (C) ${}^{12}C_6$ (D) ${}^{12}C_7$
- The co-efficient of x in the expansion of $(1-2x^2+3x^3)\left(1+\frac{1}{x}\right)^8$ is
 (A) 56 (B) 65
 (C) 154 (D) 62
- Number of irrational terms in the expansion of $(\sqrt{2} + \sqrt{3})^{15}$ is equal to
 (A) 16 (B) 7
 (C) 12 (D) 15

Binomial Theorem Problems

Lei Huang



Binomial Theorem Problems:

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Binomial Theorem Masroor Mohajerani, 2020-11-19 In this book you will learn the concept of the binomial theorem and Pascal's triangle You will also learn how to expand a binomial how to find the middle term how to find the number of terms and so on Expansion of binomials with negative or rational index is also explained Over 100 examples with a step by step solution are provided in the book Learn and practice Algebra and Improve your skills in Math You will learn Pascal Triangle Binomial theorem Binomial expansion Binomial coefficient How to find the number of terms How to find the middle term You will learn mathematics and all its sub fields such as algebra and calculus by solving different questions by yourself In the book there are lots of different examples to help you to improve your math skills This Math workbook helps students to find any kind of algebra questions and learn the skills to solve them

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Pre-Calculus For Dummies Krystle Rose Forseth,Christopher Burger,Michelle Rose Gilman,Deborah J.

Rumsey,2008-04-07 Offers an introduction to the principles of pre calculus covering such topics as functions law of sines and cosines identities sequences series and binomials

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