

Binomial Theorem Practice Problems -1

Part-1: Single Correct

1. 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) ${}^{100}C_{65}$
2. The value of $(\sqrt{5}+1)^5 - (\sqrt{5}-1)^5$ is
 (A) 252 (B) 352
 (C) 452 (D) 532
3. 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) $r = \frac{n-1}{2}$
4. 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}
5. 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
6. The last term in the binomial expansion of $\left(\sqrt[3]{2} - \frac{1}{\sqrt{2}}\right)^{100}$ is $\left(\frac{1}{3\sqrt[3]{9}}\right)^{100/3}$. 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
7. 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) $\frac{6}{n-5}$
8. 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) $2n$
9. 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) ${}^{12}C_7$
10. 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
11. 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

Prakash Gorroochurn



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