

Most Repeated Questions in JEE Main Math from General Terms of Binomial Expansion/Remainder Problems

Q: The least value of n for which the number of integral terms in the Binomial expansion of $\sqrt[3]{7 + 12\sqrt{11}}^n$ is 183, is:

Q: Suppose A and B are the coefficients of 30th and 12th terms respectively in the binomial expansion of $(1 + x)^{2n-1}$. If $2A = 5B$ then n is equal to:

Q: The remainder, when 7^{103} is divided by 23, is equal to:

Q: If the second, third and fourth terms in the expansion of $(x + y)^n$ are 135, 30 and $10/3$, respectively, then $6(n^3 + x^2 + y)$ is equal to_____.

Q: The remainder when $(2021)^{2022} + (2022)^{2021}$ is divided by 7 is

Q: Remainder when 6432^{32} is divided by 9 is equal to _____.

Q: The remainder when 32022 is divided by 5 is:

Q: The remainder when $7^{2022} + 3^{2022}$ is divided by 5 is:

Q: The remainder on dividing 5^{99} by 11 is_____.

Q: The remainder when $19^{200} + 23^{200}$ is divided by 49 is_____.

Q: Let m and n be the coefficients of seventh and thirteenth terms respectively in the expansion of