

Sequences and Series - Binomial Theorem

- ① Find p in the expansion of $\left(3x + \frac{p}{x}\right)^6$, where $p > 0$. Given that the coefficient of x^4 in the expansion is equal to the coefficient of x^0 .

② Given: $\left(x^2 + \frac{4}{x}\right)^7$

Ⓐ Write down the number of terms in this expansion.

Ⓑ Find the coefficient of x^0 .

-
- ③ Write the next 5 terms of the sequence defined recursively.

Ⓐ $a_1 = 1, a_2 = 4, a_{n+2} = a_{n+1} + 3a_n$

Ⓑ $a_1 = 50, a_{n+1} = \frac{a_n}{2} - 1$

-
- ④ Write the mentioned term of the given sequence.

Ⓐ 5th term in $(y + 3x^2)^4$

Ⓑ 2nd term in $(3x^2 - 1)^4$

Ⓒ 3rd term in $(3y - 1)^4$

Ⓓ 4th term in $(x^2 + 4)^4$

Chapter 8 Sequences Series And The Binomial Theorem

R Pring



Chapter 8 Sequences Series And The Binomial Theorem:

Whispering the Secrets of Language: An Mental Quest through **Chapter 8 Sequences Series And The Binomial Theorem**

In a digitally-driven earth where displays reign great and quick conversation drowns out the subtleties of language, the profound strategies and emotional nuances hidden within words often go unheard. However, nestled within the pages of **Chapter 8 Sequences Series And The Binomial Theorem** a fascinating literary value pulsing with natural thoughts, lies an extraordinary quest waiting to be undertaken. Penned by a talented wordsmith, this charming opus invites viewers on an introspective trip, softly unraveling the veiled truths and profound influence resonating within the material of each word. Within the mental depths of this emotional evaluation, we shall embark upon a sincere exploration of the book is core subjects, dissect its charming writing fashion, and succumb to the powerful resonance it evokes strong within the recesses of readers hearts.

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