

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

J Rink



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