

Conditions

The number of terms expansion of $(x^2 - 3)^9$ are?

Solution

We can use the **Binomial theorem** to solve this expression:

$$(x^2 - 3)^9 = \sum_{k=0}^9 C_9^k x^{2k} \cdot (-3)^{9-k}$$

As we can see, there are **ten** (from 0 to 9th) terms of this expansion.

Answer: 10