

Binomial Expansion: Targeting Specific Terms

OCANA

$$(a+b)^n = a^n + {}^n C_1 a^{n-1} b + {}^n C_2 a^{n-2} b^2 + \dots + \underbrace{{}^n C_r a^{n-r} b^r + \dots + b^n}_{(n+1) \text{ terms.}} \quad \text{General form}$$

Example

Given that the x^3 term and the constant term in the expansion of $(3x^2 - \frac{k}{x})^6$ have the same coefficient, find the value of k .

$a = 3x^2, b = -\frac{k}{x}, n = 6$

find the value of ${}^6 C_r (3x^2)^{6-r} (-\frac{k}{x})^r$

$$2(6-r) + -r = 12 - 3r$$

$$x^6 + 6m: 12 - 3r = 3$$

$${}^6 C_3 (3x^2)^{6-3} (-\frac{k}{x})^3$$

$$= 20 \times 27 x^6 (-\frac{k^3}{x^3})$$

$$= \underline{\underline{-20 \times 27 k^3 x^3}}$$

constant term: $12 - 3r = 0$
 $r = 4$

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