

EXERCISE 2.6

1. Expand the following by using binomial theorem.

(i) $(2a - 3b)^4$ (ii) $\left(x + \frac{1}{y}\right)^7$ (iii) $\left(x + \frac{1}{x^2}\right)^6$

Solution :

(i) $(2a - 3b)^4$

$$(x + a)^n = x^n + nC_1 x^{n-1} a^1 + nC_2 x^{n-2} a^2 + \dots + a^n$$
$$\therefore (2a - 3b)^4 = (2a)^4 - 4C_1 (2a)^3 (3b)^1 + 4C_2 (2a)^2 (3b)^2 - 4C_3 (2a)^1 (3b)^3 + 4C_4 (3b)^4$$
$$= 16a^4 - 4(8a^3)(3b) + 6(4a^2)(9b^2) - 4(2a)(27b^3) + 81b^4$$
$$= 16a^4 - 96a^3b + 216a^2b^2 - 216ab^3 + 81b^4$$

(ii) $\left(x + \frac{1}{y}\right)^7$

$$= x^7 + 7C_1 x^6 \left(\frac{1}{y}\right)^1 + 7C_2 x^5 \left(\frac{1}{y}\right)^2 + 7C_3 x^4 \left(\frac{1}{y}\right)^3 + 7C_4 x^3 \left(\frac{1}{y}\right)^4 + 7C_5 x^2 \left(\frac{1}{y}\right)^5 + 7C_6 x \left(\frac{1}{y}\right)^6 + \left(\frac{1}{y}\right)^7$$
$$= x^7 + 7\frac{x^6}{y} + 21\frac{x^5}{y^2} + 35\frac{x^4}{y^3} + 35\frac{x^3}{y^4} + 21\frac{x^2}{y^5} + \frac{7x}{y^6} + \left(\frac{1}{y}\right)^7$$

(iii) $\left(x + \frac{1}{x^2}\right)^6$

$$= x^6 + 6C_1 x^5 \left(\frac{1}{x^2}\right)^1 + 6C_2 x^4 \left(\frac{1}{x^2}\right)^2 + 6C_3 x^3 \left(\frac{1}{x^2}\right)^3 + 6C_4 x^2 \left(\frac{1}{x^2}\right)^4 + 6C_5 x \left(\frac{1}{x^2}\right)^5 + \left(\frac{1}{x^2}\right)^6$$
$$= x^6 + 6 \cdot \frac{x^5}{x^2} + 15 \frac{x^4}{x^4} + 20 \frac{x^3}{x^6} + 15 \frac{x^2}{x^8} + 6 \frac{x}{x^{10}} + \frac{1}{x^{12}}$$
$$= x^6 + 6x^3 + 15 + \frac{20}{x^3} + \frac{15}{x^6} + \frac{6}{x^9} + \frac{1}{x^{12}}$$

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Judd E. Hollander



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