Chapter 2 Binomial Theorem

Let's Practise

p.40

(a) 1, 6, 15, 20, 15, 6, 1

(b) 1, 7, 21, 35, 35, 21, 7, 1

FOLLOW-UP

pp.37 – 44

2.1 (a) $\sum_{r=3}^{5}(2r+5)$ p.37

$=(2\times3+5)+(2\times4+5)+(2\times5+5)$

$=\underline{39}$

(b) $\sum_{r=1}^{6}r^3$

$=1^3+2^3+3^3+4^3+5^3+6^3$

$=\underline{91}$

2.2 Let $T(n)$ be the general term of the sequence 1, 8, 27, ···, 512. p.37

Note that

$T(1)=1=1^3$,

$T(2)=8=2^3$,

$T(3)=27=3^3$

$\therefore\ T(n)=n^3$

$\therefore\ 1+8+27+\cdots+512=\underline{\sum_{r=1}^{8}r^3}$

2.3 (a) $(2a+3b)^4$ p.40

$=1\cdot(2a)^4+4(2a)^3(3b)+6(2a)^2(3b)^2$

$+4(2a)(3b)^3+1\cdot(3b)^4$

$=\underline{16a^4+96a^3b+216a^2b^2+216ab^3+81b^4}$

(b) $\left(x-\frac{1}{2}\right)^5$

$=1\cdot(x^5)+5(x^4)\left(-\frac{1}{2}\right)+10(x^3)\left(-\frac{1}{2}\right)^2$

$+10(x^2)\left(-\frac{1}{2}\right)^3+5(x)\left(-\frac{1}{2}\right)^4+1\cdot\left(-\frac{1}{2}\right)^5$

$=\underline{x^5-\frac{5}{2}x^4+\frac{5}{2}x^3-\frac{5}{4}x^2+\frac{5}{16}x-\frac{1}{32}}$

2.4 $\left(\frac{x}{2}+4\right)^5$ p.42

$=\left(4+\frac{x}{2}\right)^5$

$=C_0^5 4^5+C_1^5(4)^4\left(\frac{x}{2}\right)+C_2^5(4)^3\left(\frac{x}{2}\right)^2$

$+C_3^5(4)^2\left(\frac{x}{2}\right)^3+\cdots$

$=1\cdot(4)^5+5(4)^4\left(\frac{x}{2}\right)+10(4)^3\left(\frac{1}{2}\right)^2(x)^2$

$+10(4)^2\left(\frac{1}{2}\right)^3(x)^3+\cdots$

$=\underline{1024+640x+160x^2+20x^3+\cdots}$

2.5 (a) The 4th term $=C_3^8(2)^5(-3x)^3$ p.43

$=56\cdot8\cdot(-243x^3)$

$=\underline{-108864x^3}$

(b) The term containing $x^3=C_3^7(3x)^3(4)^4$

$=(35)(27x^3)(256)$

$=\underline{241920x^3}$

(c) General term $=C_r^9(2x)^{9-r}\left(\frac{1}{3x}\right)^r$

$=C_r^9(2^{9-r})\left(\frac{1}{3}\right)^r x^{9-2r}$

For the constant term, the power of x is 0,

i.e. $9-2r=0$

$r=3$

$\therefore$ The constant term $=C_3^9(2^6)\left(\frac{1}{3}\right)^3$

$=\underline{\frac{160}{27}}$

2.6 $(p-qx)^7=C_0^7p^7+C_1^7p^6(-qx)+\cdots$ p.44

$=p^7-7p^6qx+\cdots$

$\therefore\ p^7=128$

$=2^7$

$p=2$

$-7p^6q=672$

$-7(2)^6q=672$

$q=\frac{672}{7(2)^6}$

$=\frac{3}{2}$

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