CA 14.3

Find each term described.

1) 3rd term in expansion of $(3u - 1)^5$

2) 4th term in expansion of $(3 + x)^5$

3) 3rd term in expansion of $(v - u)^6$

4) 3rd term in expansion of $(y - 3)^4$

Expand completely.

5) $(x - 3)^5$

6) $(4 - v)^3$

7) $(4y - 1)^3$

8) $(1 - 4n)^3$

9) $(2x + 3y)^5$

10) EVALUATE $_{10}C_3$ & $_{15}C_{13}$

Answers to CA 14.3

1) $270u^3$ 2) $90x^3$ 3) $15v^4u^2$ 4) $54y^2$
5) $x^5 - 15x^4 + 90x^3 - 270x^2 + 405x - 243$ 6) $64 - 48v + 12v^2 - v^3$
7) $64y^3 - 48y^2 + 12y - 1$ 8) $1 - 12n + 48n^2 - 64n^3$
9) $32x^5 + 240x^4y + 720x^3y^2 + 1080x^2y^3 + 810xy^4 + 243y^5$ 10) $_{10}C_3 = 120$ $_{15}C_{13} = 105$