Chapter 6

Squares & Square Roots

Examples:

(i) $(1 \times 3) + 1 = 3 + 1 = 4 = 2^2$

(ii) $(3 \times 5) + 1 = 15 + 1 = 16 = 4^2$

In general, $(2n-1)(2n+1) = 4n^2 = (2n)^2$

(iii) $(2 \times 4) + 1 = 8 + 1 = 9 = 3^2$

(iv) $(4 \times 6) + 1 = 24 + 1 = 25 = 5^2$

In general, $(2n)(2n+2)+1 = 4n^2 + 4n + 1 = (2n+1)^2$