

Generate the following series

(a) 1 2 4 7 11 16 22

(b) 0 1 3 6 10 15 21

(c) 0 3 8 15 24 35

(d) 0 1 1 2 3 5 8 13 (fibonacci series)

(e) 1 2 2 4 8 32

(f) 2 3 4 6 6 9 8 12 10 15

(g) 1 5 2 4 3 3 4 2 5 1

(h) 0 7 26 63 124

Calculate the Sum of given series

(a)  $S = 1 + 2 - 3 + 4 - 5 + 6 - 7 + 8 - 9 + \dots + N^{\text{th}}$