

Sequences and Series SS6: Sigma Notation

Write the terms of the series and evaluate the partial sum

1.
$$\sum_{n=1}^4 5 + 3(n - 1)$$

2.
$$\sum_{j=1}^5 5 \cdot 3^{j-1}$$

3.
$$\sum_{k=3}^5 3 - 2(k - 1)$$

4.
$$\sum_{n=4}^7 2 \cdot 2^{n-1}$$

5.
$$\sum_{n=1}^4 n^2$$

Write the given series in sigma notation

6. $2 + 6 + 10 + 14 + 18 + 22 + 26 + 30$

7. $1 + 3 + 5 + 7 + \dots + 25$

8. $3 + 9 + 27 + \dots$

9. $100 + 95 + 90 + \dots + 70$

10. $3 + 4 + 5 + 6 + 7 + \dots + 99$