

Evaluate: Series

Evaluate each series.

1)
$$\sum_{n=1}^8 (3^n - 1)$$

2)
$$\sum_{a=1}^{10} (a - 7)^2$$

3)
$$\sum_{b=1}^{12} (b^2 + 9)$$

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

7)
$$\sum_{d=1}^4 6^{d-1}$$

8)
$$\sum_{c=1}^{15} (4c + 3)$$

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