

## Evaluate: Series

Evaluate each series.

1)  $\sum_{y=1}^7 \left(\frac{2}{3}\right)^y$

2)  $\sum_{k=1}^6 (5 \cdot (\sqrt{5})^{k+1})$

3)  $\sum_{q=1}^{15} (-2q + 3)$

5)  $\sum_{x=1}^9 (8x^2 - 3)$

7)  $\sum_{f=1}^4 \frac{1}{3}(f(f+1)(4f-1))$

8)  $\sum_{g=1}^{13} (16 - g^2)$

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