

**Evaluate: Series**

Evaluate each series.

1) 
$$\sum_{r=1}^4 (2^r \cdot r!)$$

2) 
$$\sum_{b=1}^7 (4^b + 1)$$

3) 
$$\sum_{y=1}^{12} ((y^3 - 1)$$

5) 
$$\sum_{z=1}^8 (99 - z^2)$$

7) 
$$\sum_{x=1}^{11} 7x^2$$

8) 
$$\sum_{n=1}^5 \frac{5^n}{10}$$

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