

Evaluate: Series

Evaluate each series.

1)
$$\sum_{k=1}^{11} \left(\frac{2^k + 5}{4} \right)$$

2)
$$\sum_{p=1}^8 ((3p^2 - 2) \cdot 3!)$$

3)
$$\sum_{q=1}^5 q!$$

5)
$$\sum_{m=1}^6 \left(\frac{m!}{1+m} \right)$$

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7)
$$\sum_{b=1}^{12} (400 - b)$$

8)
$$\sum_{c=1}^7 5^c$$