

Evaluate: Series

Evaluate each series.

1) $\sum_{m=1}^{12} ((m + 6)^2 - 75)$

2) $\sum_{x=1}^{15} ((x - 15)(x + 4))$

3) $\sum_{k=1}^6 ((\sqrt{k})^2)$

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5) $\sum_{u=1}^4 \left(\frac{2}{3} + \frac{1}{u}\right)$

(2n + 7))

7) $\sum_{g=1}^7 ((g - 4)^2 + g^3 - g)$

8) $\sum_{b=1}^5 \frac{3b}{2}$