Sigma notation

Expand sigma

1. Expand and evaluate $\sum_{k=1}^{6} 3k$.

2. Expand and evaluate $\sum_{k=1}^{4} 2(k+1)$.

3. Expand and evaluate $\sum_{k=1}^{5} k(k+3)$.

4. Expand and evaluate $\sum_{k=1}^{4} k^2 + 2$.

Find the sum

1. Find the value of $\sum_{r=2}^{33} 5(3)^r$.

2. Find the value of $\sum_{r=6}^{29} 4(2)^r$.

Write sigma notation for arithmetic sequence

1. Consider the sum of the arithmetic sequence is 4 + 11 + 18 + 25
   + … + 95.
   Write the sigma notation.

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2. Consider the sum of the arithmetic sequence is 5 + 2 − 1 − 4 + … −
   64.
   Write the sigma notation.

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