IBDP Mathematics Analysis and approaches (SL) Sigma notation



Sigma notation

Expand sigma

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

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

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

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

IBDP Mathematics Analysis and approaches (SL) Sigma notation



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

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+ ... + 95.
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Write the sigma notation.

2. Consider the sum of the arithmetic sequence is 5 + 2 - 1 - 4 + ... - 2 = 1 - 4

64.

Write the sigma notation.