

CALCULUS
The Sigma Notation
OLD2

0080-1. Compute $\sum_{k=4}^7 e^{k/2}$ to two decimal places.

0080-2. Find a polynomial in m that,

for all integers $m \geq 1$, is equal to $\sum_{k=1}^m (4k - 3)$.

0080-3. a. Compute $\sum_{k=7}^9 [3k^2 - 4k]$.

b. Compute $3 \left[\sum_{k=7}^9 k^2 \right] - 4 \left[\sum_{k=7}^9 k \right]$.

0080-4.
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a. Compute $\sum_{j=3}^5 e^j$ to five decimal places.

b. Compute $\sum_{j=6}^8 e^{j-3}$ to five decimal places.

0080-5. a. Compute $\sum_{m=0}^2 [2m - 1][e^{-m}]$
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to three decimal places.

b. Compute $\left[\sum_{m=0}^2 2m - 1 \right] \left[\sum_{m=0}^2 e^{-m} \right]$

to three decimal places.