CALCULUS
The Sigma Notation
OLD

0080-1. Compute $\displaystyle\sum_{j=2}^{5} e^j$ to two decimal places.

0080-2. Find a polynomial in m that,

for all integers $m \geq 1$, is equal to $\displaystyle\sum_{k=1}^{m} (2k + 8)$.

0080-3. a. Compute $\displaystyle\sum_{k=7}^{9} \left[2k^2 + 3k\right]$.

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

0080-4.

a. Compute $\displaystyle\sum_{j=7}^{9} e^j$ to five decimal places.

b. Compute $\displaystyle\sum_{j=4}^{6} e^{j+3}$ to five decimal places.

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0080-5.
a. Compute $\displaystyle\sum_{k=7}^{9} [e^k][\sin k]$

to three decimal places.

b. Compute $\displaystyle\left[\sum_{k=7}^{9} e^k\right]\left[\sum_{k=7}^{9} \sin k\right]$

to three decimal places.