

CALCULUS
The Sigma Notation
NEW

0080-1. Compute $\sum_{k=4}^7 \ln(k)$ to two decimal places.

0080-2. Find a polynomial in m that,

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

0080-3.
NEW

a. Compute $\sum_{k=7}^9 [-k^2 + 8k]$.

b. Compute $-\left[\sum_{k=7}^9 k^2\right] + 8\left[\sum_{k=7}^9 k\right]$.

0080-4.
NEW

a. Compute $\sum_{j=1}^4 e^k$ to five decimal places.

b. Compute $\sum_{k=0}^3 e^{k+1}$ to five decimal places.

a. Compute $\sum_{\ell=7}^9 [e^{\ell}][\cos \ell]$

to three decimal places.

b. Compute $\left[\sum_{\ell=7}^9 e^{\ell} \right] \left[\sum_{\ell=7}^9 \cos \ell \right]$

to three decimal places.