

Sigma Notation

Sigma Notation $\sum_{k=1}^n a_k$

$$\sum_{k=1}^n a_k =$$

$$\sum_{k=1}^n (a_k + b_k) =$$

$$\sum_{k=1}^n (a_k - b_k) =$$

$$\sum_{k=1}^n c a_k =$$

$$\sum_{k=1}^n c =$$

$$\sum_{k=1}^n k =$$

$$\sum_{k=1}^n k^2 =$$

$$\sum_{k=1}^n k^3 =$$

Riemann Sums – Partitions

Norm of a partition $\|P\|$ -

$$\sum_{k=1}^3 \frac{k-1}{k} =$$

$$\sum_{k=1}^3 \left(1 - \frac{1}{k}\right) =$$

Try It: $\sum_{k=1}^3 (-1)^{k+1} \sin k\pi =$

$$1 - 2 + 4 - 8 + 16 - 32$$

Try It: $-\frac{1}{5} + \frac{2}{5} - \frac{3}{5} + \frac{4}{5} - \frac{5}{5}$

$$\sum_{k=1}^7 (-2k) =$$