Numerical Methods for Integration Trapezoidal Rule

$$\begin{split} \int_{a}^{b} f(x) dx &= \frac{1}{2} \frac{b-a}{n} [f(x_0) + 2 f(x_1) + \dots \\ &+ 2 f(x_{n-1}) + f(x_n)] \end{split}$$

RRAM (Right-hand Rect. Approx.)
LRAM (Left-hand Rect. Approx)
MRAM (Midpt. Rect. Approx)