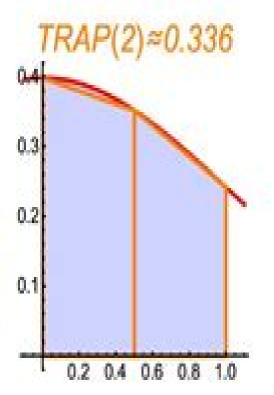
# Numerical Integration Crash Course

$$\int_{a}^{b} f(x) dx \approx \frac{h}{3} \Big( f(x_0) + 4f(x_1) + 2f(x_2) + 4f(x_3) + \dots + 2f(x_{n-2}) + 4f(x_{n-1}) + f(x_n) \Big)$$

$$TRAP(n) = \frac{LEFT(n) + RIGHT(n)}{2}$$

$$\left| \int_{a}^{b} f(x) dx - SIMP(n) \right| \le \frac{h^{4}(b-a)}{180} \cdot \max_{a \le x \le b} \left| f^{(4)}(x) \right|$$

Rule	Approximation	Error	Absolute Error
LEFT(2)	0.375504	0.341 - 0.376 = -0.035	-0.035  = 0.035
RIGHT(2)	0.297018	0.341 - 0.297 = 0.044	0.044  = 0.044



## **Numerical Integration**

SJ Ball



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