

Vocabulary/Definitions

- Definition/meaning of Δt
- Sigma notation: meaning of $\sum_{i=1}^n f(t_i)\Delta t$
- Definite integral
- Riemann sum
- Integrand
- Limits of integration
- Definite integrals and areas
- General Riemann sum

Understand

1. Estimate $\int_1^3 \ln(x) dx$ using a left-hand sum with $n = 4$.

2. Consider $\int_0^2 3x dx$ as an area and use that interpretation to find the value of the integral.