

Chapter 7

7.1 Area & Distance

Let f be a continuous, nonnegative function on $[a, b]$:

$$\text{Area under } y = f(x) \text{ on } [a, b] = \lim_{n \rightarrow \infty} \sum_{i=1}^n f(c_i) \Delta x$$

$$= \text{area of } [f(x_0) \cdot (x_1 - x_0) + \dots + f(x_{n-1}) \cdot (x_n - x_{n-1})]$$

$$= \text{width} \cdot \text{height}$$

Graphing calc: 1. $y = f(x)$

2. select coordinates

3. table (auto-graph)

Plotting x vs y = graph calc

1. start \rightarrow end $\rightarrow x_1, x_2$

2. start plot (end x, y)

3. graph

7.2 The Definite Integral

If f is a continuous function on $[a, b]$ and $[c, d] \subset [a, b]$ is a subinterval = subarea:

$$\int_a^b f(x) dx = \lim_{n \rightarrow \infty} \sum_{i=1}^n f(c_i) \Delta x$$

Area under

$$\text{Integral Area: } \int_a^b f(x) dx = \frac{1}{n} [f(x_1) + f(x_2) + f(x_3) + \dots + f(x_n)]$$

Riemann Sum Supplement

$$f(c_i) = f(x_i + \Delta x) \quad \therefore \int_a^b f(x) dx = \lim_{n \rightarrow \infty} \sum_{i=1}^n f(c_i) \Delta x$$

\rightarrow turning definite integral into Riemann sum first

7.3 The Fundamental Theorem of Calculus

If f is continuous on $[a, b]$ and $F(a) = P, F(b) = Q$, then $\int_a^b f(x) dx = Q - P$

Example: $\int_1^2 x dx = \frac{1}{2} x^2 \Big|_1^2$

$$= \int_1^2 (x) dx \quad \text{antiderivative don't need initial = definite integral}$$

$$= \frac{x^2}{2} \Big|_1^2$$

$$= \left(\frac{2^2}{2} + \frac{1^2}{2} \right) - \left(\frac{1^2}{2} + \frac{1^2}{2} \right)$$

$$= -6$$

Anti: If $f(x) = x^n, n \neq -1$, then $\int x^n dx = \frac{x^{n+1}}{n+1} + c$

Anti: check if f is continuous

Derivatives of an Integral

Example: $h(x) = \int_1^x x^2 dx$

$$h(x) = F(x) - F(1)$$

$$h'(x) = F'(x) - 0 = 0$$

$$= 2x + C(x)$$

$$= 2x + C(x)$$

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William Ma, Emily Pillar



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