

## 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. table (contour)

3. table (2nd graph)

Plotting  $x = a$ ,  $y = f(a)$

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

2. start pt  $(x_1, y_1)$

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, then:

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

Area under

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

### Riemann Sum Supplement

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

$\rightarrow$  turning definite integral into Riemann sum first

### 7.3 The Fundamental Theorem of Calculus

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

Example:  $\int_1^2 x dx$

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

$$= \frac{x^3}{3} \Big|_1^2$$

$$= \left( \frac{2^3}{3} + \frac{1^3}{3} \right) - \left( \frac{1^3}{3} + \frac{1^3}{3} \right)$$

$$= -6$$

note: if  $f(x) = x^n$ ,  $n \neq -1$ , then

$$f(x) = \frac{x^{n+1}}{n+1} + c$$

note: check if  $f$  is continuous

### Derivatives of an Integral

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

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

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

$$= 2x + C$$

$$= 2x + C$$

# Ap Calculus Chapter 4 Review

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