

## Calculus Study Guide

**Rationalization to find limits:**

$$\lim_{x \rightarrow 3} \frac{\sqrt{x+1} - 2}{x-3} = \lim_{x \rightarrow 3} \left( \frac{\sqrt{x+1} - 2}{x-3} \right) \left( \frac{\sqrt{x+1} + 2}{\sqrt{x+1} + 2} \right) = \lim_{x \rightarrow 3} \frac{x+1-4}{(x+3)(\sqrt{x+1}+2)}$$

$$= \lim_{x \rightarrow 3} \frac{1}{(x+3)(\sqrt{x+1}+2)} = \lim_{x \rightarrow 3} \frac{1}{\sqrt{x+1}+2} = \frac{1}{4}$$

**Squeeze Theorem:**

$$\lim_{x \rightarrow 0} |x| = 0 \quad \& \quad \lim_{x \rightarrow 0} -|x| = 0 \quad \lim_{x \rightarrow 0} x \cos \frac{1}{x} \quad \text{DNE (oscillates).}$$

$$|x| < x \cos \frac{1}{x} < -|x| \Rightarrow \lim_{x \rightarrow 0} x \cos \frac{1}{x} = 0$$

**Important Limits:**

$$\lim_{x \rightarrow 0} \frac{\sin x}{x} = 1 \qquad \lim_{x \rightarrow 0} \frac{1 - \cos x}{x} = 0 \qquad \lim_{x \rightarrow 0} \frac{\tan x}{x} = 1$$

**Intermediate Value Theorem:** if  $f$  is continuous on  $[a,b]$  and  $k$  is any number between  $f(a)$  and  $f(b)$ , then there is one number  $c$  in  $[a,b]$  such that  $f(c)=k$ .

**Mean Value Theorem:** if  $f$  is continuous on  $[a,b]$  and differentiable on  $(a,b)$  then there exists a number  $c$  such that  $f'(c) = \frac{f(b)-f(a)}{b-a}$ . (**Rolle's Theorem** is the same, where  $\frac{f(b)-f(a)}{b-a} = 0$ )

**Fundamental Theorem of Calculus:** if  $f$  is continuous on  $[a,b]$  and  $F$  is the antiderivative of  $f$  on  $[a,b]$  then

$$\int_a^b f(x) dx = F(b) - F(a)$$

**Second Fundamental Theorem:**

$$\frac{d}{dx} \left[ \int_a^x f(t) dt \right] = f(x)$$

**Mean Value Theorem for Integrals:** if  $f(x)$  is continuous on  $[a,b]$  then there exists a  $c$  value between  $a$  and  $b$  such that  $\int_a^b f(x) dx = (f(c))(b-a)$

A rectangle with length  $b-a$  and height  $f(c)$  is called the **Average Value of the Function**.

**Trapezoidal Rule:** To approximate area under a curve.

$$\frac{\Delta x}{2} [f(x_0) + 2f(x_1) + 2f(x_2) + \dots + 2f(x_{n-1}) + f(x_n)]$$

As  $n \rightarrow \infty$  the sum approaches  $\int_a^b f(x) dx$

**Trapezoidal Error:** if  $f$  has a continuous second derivative on  $[a,b]$  then the error  $E$  in approximating  $\int_a^b f(x) dx$  by the trapezoidal rule is

$$E \leq \frac{(b-a)^3}{12n^2} [\max |f''(x)|] \quad \text{when } a \leq x \leq b$$

# Ap Bc Calculus Study Guide

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