#### Curve sketching and analysis

y = f(x) must be continuous at each:

critical point:  $\frac{dy}{dx} = 0$  or undefined

local minimum: (and look out for endpoints)

$$\frac{dy}{dx}$$
 goes (-,0,+) or (-,und,+) or  $\frac{d^2y}{dx^2}>0$ 

local maximum:

$$\frac{dy}{dz}$$
 goes (+,0,-) or (+,und,-) or  $\frac{d^2y}{dz^2}$ <0

point of inflection: concavity changes

$$\frac{d^2y}{dx^2}$$
 goes from (+,0,-), (-,0,+),  
(+,und,-), or (-,und,+)

#### Stuff you MUST know Cold Differentiation Rules

#### Chain Rule

$$\frac{d}{ds}[f(u)] = f'(u)\frac{du}{ds}$$
  $OR$   $\frac{dy}{ds} = \frac{dy}{ds}\frac{du}{ds}$ 

#### Product Rule

$$\frac{d}{dx}(uv) = \frac{dw}{dx}v + w\frac{dv}{dx} OR w'v + uv'$$

#### Quotient Rule

$$\frac{d}{dx}\left(\frac{u}{v}\right) = \frac{\frac{dx}{dx}v - u\frac{dx}{dx}}{v^2} \quad OR \frac{u^*v - uv^*}{v^2}$$

#### Approx. Methods for Integration Trapezoidal Rule

$$\int_{-\infty}^{\infty} f(x) dx = \frac{1}{2} \frac{1}{2} \left[ f(x_0) + 2 f(x_1) + \dots \right]$$

$$+2f(x_{a+})+f(x_a)$$

With data, do each trap separately using  $\forall 2 \Delta x (f(x_1) + f(x_2))$ . It is an over approximation if  $f^{**}(x) > 0$  (concave up)

Riemann Sums are rectangles. Left Riemann sums under approximate when f(x) is increasing (f'(x) > 0)...

interval (a, b), then there exists a number

and the first derivative exists on the

Theorem of the Mean Value i.e. AVERAGE VALUE If the function f(x) is continuous on [a, b]

#### Basic Derivatives

$$\frac{d}{dx}(x^{n}) = nx^{n-1}$$

$$\frac{d}{dx}(\sin x) = \cos x$$

$$\frac{d}{dx}(\cos x) = -\sin x$$

$$\frac{d}{dx}(\tan x) = \sec^2 x$$

$$\frac{dx}{dx}(\cot x) = -\csc^2 x$$

$$\frac{d}{dx}(\sec x) = \sec x \tan x$$

$$\frac{d}{dx}(\csc x) = -\csc x \cot x$$

$$\frac{d}{dx}(\ln u) = \frac{1}{u} \frac{du}{dx}$$

$$\frac{d}{dx}(e^{x}) = e^{x} \frac{du}{dx}$$

where  $\alpha$  is a function of  $\kappa$ , and  $\alpha$  is a constant.

## "PLUS A CONSTANT"

#### The Fundamental Theorem of Calculus

$$\int_{a}^{b} f(x)dx = F(b) - F(a)$$
where  $F'(x) = f(x)$ 

#### Corollary to FTC

$$\frac{d}{dx}\int_{a(x)}^{b(x)} f(x)dx =$$

$$f(b(x))b'(x) - f(a(x))a'(x)$$

#### Intermediate Value Theorem

If the function f(x) is continuous on [a, b], and y is a number between f(a) and f(b), then there exists at least one number x = c in the open interval (a, b) such that f(c) = y.

## Solids of Revolution and friends

 $f(c) = \frac{\int_{c}^{c} f(x)dx}{(b-a)}$ 

This value f(c) is the "average value" of

Disk Method  

$$V = \pi \left[ \int_{-\infty}^{\infty} [R(x)]^2 dx \right]$$

x = c on (a, b) such that

$$V = \pi \int_{0}^{x} ([R(x)]^{2} - [r(x)]^{2}) dx$$

the function on the interval [a, b].

General volume equation (not rotated)

$$V = \int_{-\infty}^{\infty} Area(x) dx$$

\*Arc Length 
$$L = \int_{x}^{x} \sqrt{1 + [f(x)]^{2}} dx$$
  
=  $\int_{0}^{x} \sqrt{[x(t)]^{2} + [x(t)]^{2}} dt$ 

#### More Derivatives

$$\frac{d}{dx}\left(\sin^{-1}\frac{u}{a}\right) = \frac{1}{\sqrt{a^2 - u^2}} \frac{du}{dx}$$

$$\frac{d}{dx}\left(\cos^{-1}x\right) = \frac{-1}{\sqrt{1 - x^2}}$$

$$\frac{d}{dx}\left(\tan^{-1}\frac{u}{a}\right) = \frac{\alpha}{a^2 + u^2} \cdot \frac{du}{dx}$$

$$\frac{d}{dx}\left(\cot^{-1}x\right) = \frac{-1}{1 + x^2}$$

$$\frac{d}{dx}\left(\sec^{-1}\frac{u}{a}\right) = \frac{a}{|u|\sqrt{u^2 - a^2}} \cdot \frac{du}{dx}$$

$$\frac{d}{dx}\left(\csc^{-1}x\right) = \frac{-1}{|x|\sqrt{x^2 - 1}}$$

 $\frac{d}{dx}(\alpha^{\omega(x)}) = \alpha^{\omega(x)} \ln \alpha \cdot \frac{d\alpha}{dx}$ 

 $\frac{d}{dx}(\log_x x) = \frac{1}{x \ln a}$ 

#### Mean Value Theorem

If the function f(x) is continuous on [a, b]. AND the first derivative exists on the interval (a, b), then there is at least one number x = c in (a, b) such that

$$f'(c) = \frac{f(b) - f(a)}{b - a}$$

#### Rolle's Theorem

If the function f(x) is continuous on [a, b], AND the first derivative exists on the interval (a, b), AND f(a) = f(b), then there is at least one number x = c in (a, b) such that

$$f''(c)=0\;.$$

#### Derivative Formula for Inverses

$$\frac{df^{-1}}{dx}\Big|_{x=f(a)} = \frac{1}{\frac{df}{dx}}\Big|_{x=a}$$

#### Distance, Velocity, and Acceleration velocity = $\frac{d}{d}$ (position)

$$acceleration = \frac{d}{x} (velocity)$$

\*velocity vector = 
$$\left(\frac{dx}{dt}, \frac{dy}{dt}\right)$$

$$specd = ||\cdot|| = \sqrt{(x')^2 + (y')^2}$$

$$displacement = \int_{0}^{\infty} v dr$$

distance = 
$$\int_{-\infty}^{\infty} \frac{|v| dt}{\left(|x'|^2 + (|y'|)^2\right)} dt =$$

$$=\frac{\Delta x}{\Delta x}$$

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