

CALCULUS

Limits

Common Derivatives

$$\lim_{x \rightarrow a} f(x) = L \quad \Phi 1$$

$$\lim_{x \rightarrow a^+} f(x) = \lim_{x \rightarrow a^-} f(x) = L$$

$$\lim_{x \rightarrow a} f(x) \neq \lim_{x \rightarrow a} f(x) \quad \Phi 1$$

$$\lim_{x \rightarrow a} f(x) \text{ Does Not Exist}$$

L'Hospital's Rule

If $\lim_{x \rightarrow a} \frac{f(x)}{g(x)} = \frac{0}{0}$ or $\lim_{x \rightarrow a} \frac{f(x)}{g(x)} = \frac{\infty}{\infty}$ then,

$$\lim_{x \rightarrow a} \frac{f(x)}{g(x)} = \lim_{x \rightarrow a} \frac{f'(x)}{g'(x)} \quad a \text{ is a number, } \infty \text{ or } -\infty$$

Derivatives

Definition and Notation

$$f'(x) = \lim_{h \rightarrow 0} \frac{f(x+h) - f(x)}{h}$$

Basic Properties and Formulas

$$(fg)' = f'g + fg' \quad \text{Product Rule}$$

$$\left(\frac{f}{g} \right)' = \frac{f'g - fg'}{g^2} \quad \text{Quotient Rule}$$

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

$$\frac{d}{dx} (f(g(x))) = f'(g(x))g'(x)$$

This is the Chain Rule

$$\frac{d}{dx} (x) = 1 \quad \frac{d}{dx} (\csc x) = -\csc x \cot x$$

$$\frac{d}{dx} (\sin x) = \cos x \quad \frac{d}{dx} (\cot x) = -\csc^2 x$$

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

$$\frac{d}{dx} (\tan x) = \sec^2 x \quad \frac{d}{dx} (\cos^{-1} x) = -\frac{1}{\sqrt{1-x^2}}$$

$$\frac{d}{dx} (\sec x) = \sec x \tan x \quad \frac{d}{dx} (\tan^{-1} x) = \frac{1}{1+x^2}$$

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

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

$$\frac{d}{dx} (\ln(x)) = \frac{1}{x}, \quad x > 0$$

$$\frac{d}{dx} (\ln|x|) = \frac{1}{x}, \quad x \neq 0$$

$$\frac{d}{dx} (\log_a(x)) = \frac{1}{x \ln a}, \quad x > 0$$

Increasing/Decreasing Concave Up/Concave Down Critical Points

$x = c$ is a critical point of $f(x)$ provided either

1. $f'(c) = 0$ or
2. $f'(c)$ doesn't exist.

Increasing/Decreasing

1. If $f'(x) > 0$ for all x in an interval I then $f(x)$ is increasing on the interval I .
2. If $f'(x) < 0$ for all x in an interval I then $f(x)$ is decreasing on the interval I .
3. If $f'(x) = 0$ for all x in an interval I then $f(x)$ is constant on the interval I .

Concave Up/Concave Down

1. If $f''(x) > 0$ for all x in an interval I then $f(x)$ is concave up on the interval I .
2. If $f''(x) < 0$ for all x in an interval I then $f(x)$ is concave down on the interval I .

Inflection Points

$x = c$ is an inflection point of $f(x)$ if the concavity changes at $x = c$.

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**Jonathan Tullis, The Wesolvethem
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