

## Calculus Cheat Sheet

**Limits  
Definitions**

**Precise Definition :** We say  $\lim_{x \rightarrow a} f(x) = L$  if for every  $\epsilon > 0$  there is a  $\delta > 0$  such that whenever  $0 < |x - a| < \delta$  then  $|f(x) - L| < \epsilon$ .

**“Working” Definition :** We say  $\lim_{x \rightarrow a} f(x) = L$  if we can make  $f(x)$  as close to  $L$  as we want by taking  $x$  sufficiently close to  $a$  (on either side of  $a$ ) without letting  $x = a$ .

**Right hand limit :**  $\lim_{x \rightarrow a^+} f(x) = L$ . This has the same definition as the limit except it requires  $x > a$ .

**Left hand limit :**  $\lim_{x \rightarrow a^-} f(x) = L$ . This has the same definition as the limit except it requires  $x < a$ .

**Relationship between the limit and one-sided limits**

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

$$\lim_{x \rightarrow a^+} f(x) \neq \lim_{x \rightarrow a^-} f(x) \Rightarrow \lim_{x \rightarrow a} f(x) \text{ Does Not Exist}$$

**Properties**

Assume  $\lim_{x \rightarrow a} f(x)$  and  $\lim_{x \rightarrow a} g(x)$  both exist and  $c$  is any number then.

- $\lim_{x \rightarrow a} [cf(x)] = c \lim_{x \rightarrow a} f(x)$
- $\lim_{x \rightarrow a} [f(x) \pm g(x)] = \lim_{x \rightarrow a} f(x) \pm \lim_{x \rightarrow a} g(x)$
- $\lim_{x \rightarrow a} [f(x)g(x)] = \lim_{x \rightarrow a} f(x) \lim_{x \rightarrow a} g(x)$
- $\lim_{x \rightarrow a} \left[ \frac{f(x)}{g(x)} \right] = \frac{\lim_{x \rightarrow a} f(x)}{\lim_{x \rightarrow a} g(x)}$  provided  $\lim_{x \rightarrow a} g(x) \neq 0$
- $\lim_{x \rightarrow a} [f(x)]^n = \left[ \lim_{x \rightarrow a} f(x) \right]^n$
- $\lim_{x \rightarrow a} [\sqrt[n]{f(x)}] = \sqrt[n]{\lim_{x \rightarrow a} f(x)}$

**Basic Limit Evaluations at  $\pm \infty$** 

Note :  $\text{sgn}(a) = 1$  if  $a > 0$  and  $\text{sgn}(a) = -1$  if  $a < 0$ .

- $\lim_{x \rightarrow \infty} e^x = \infty$  &  $\lim_{x \rightarrow -\infty} e^x = 0$
- $\lim_{x \rightarrow \infty} \ln(x) = \infty$  &  $\lim_{x \rightarrow 0^+} \ln(x) = -\infty$
- If  $r > 0$  then  $\lim_{x \rightarrow \infty} \frac{b}{x^r} = 0$
- If  $r > 0$  and  $x^r$  is real for negative  $x$  then  $\lim_{x \rightarrow -\infty} \frac{b}{x^r} = 0$
- $n$  even :  $\lim_{x \rightarrow \pm\infty} x^n = \infty$
- $n$  odd :  $\lim_{x \rightarrow \infty} x^n = \infty$  &  $\lim_{x \rightarrow -\infty} x^n = -\infty$
- $n$  even :  $\lim_{x \rightarrow \pm\infty} ax^n + \dots + bx + c = \text{sgn}(a)\infty$
- $n$  odd :  $\lim_{x \rightarrow \infty} ax^n + \dots + bx + c = \text{sgn}(a)\infty$
- $n$  odd :  $\lim_{x \rightarrow -\infty} ax^n + \dots + bx + c = -\text{sgn}(a)\infty$

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# University Calculus

**Joel R. Hass, Christopher E.  
Heil, Przemyslaw Bogacki, George B.  
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## University Calculus:

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