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# Calculus - REA's Quick Access Reference Chart (Quick Access Reference Charts)

**REVIEW** **Quick Access®** **CALCULUS**

**A. FUNCTIONS**

**1. POLYNOMIALS**

1. Determine the domain and range of the function.  
2. Find the intercepts and asymptotes.

**2. RATIONAL FUNCTIONS**

1. Determine the vertical and horizontal asymptotes, and plot a graph of the function.

**3. EXPONENTIAL AND LOGARITHMIC FUNCTIONS**

1. Determine the vertical and horizontal asymptotes, and plot a graph of the function.

**4. TRIGONOMETRIC FUNCTIONS**

1. Determine the equation of the graph.

**5. TRANSCENDENTAL FUNCTIONS**

1. Determine the domain of the function.

**B. LIMITS**

**1. DEFINITION**

Given a function  $f$  and a real number  $L$ , the value of the function needs to approach  $L$  as  $x$  is evaluated at values of  $x$  approaching  $a$  (that is, as  $x$  approaches  $a$  from both sides).

**2. ONE-SIDED LIMITS**

$\lim_{x \rightarrow a^+} f(x) = L$  means that as  $x$  approaches  $a$  from the right, the function values approach  $L$ .

**C. PROPERTIES OF LIMITS**

For the limit of a function  $f(x) = L$  as  $x \rightarrow a$ :

1.  $\lim_{x \rightarrow a} (f(x) + g(x)) = L + M$  if  $\lim_{x \rightarrow a} g(x) = M$ .

2.  $\lim_{x \rightarrow a} (f(x) \cdot g(x)) = L \cdot M$  if  $\lim_{x \rightarrow a} g(x) = M$ .

3.  $\lim_{x \rightarrow a} \left( \frac{f(x)}{g(x)} \right) = \frac{L}{M}$  provided  $M \neq 0$ .

4.  $\lim_{x \rightarrow a} (f(x)^n) = L^n$  provided  $L > 0$ .

5. **SPECIAL LIMITS**

1.  $\lim_{x \rightarrow 0} \frac{\sin x}{x} = 1$   
2.  $\lim_{x \rightarrow 0} \frac{e^x - 1}{x} = 1$



## **Synopsis**

Fast Facts at Your Fingertips! REA's Quick Access Study Charts contain all the information students, teachers, and professionals need in one handy reference. They provide quick, easy access to important facts. The charts contain commonly used mathematical formulas, historical facts, language conjugations, vocabulary and more! Great for exams, classroom reference, or a quick refresher on the subject. Most laminated charts consist of 2 fold-out panels (4 pages) that fit into any briefcase or backpack. Each chart has a 3-hole punch for easy placement in a binder. Each chart measures 8 1/2" x 11"

## **Book Information**

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## **Customer Reviews**

This is a wonderful reference chart. This would be useful for anyone taking psychology, sociology, social work etc. This chart does a wonderful job breaking down the basic essentials of psychology. This chart was extremely helpful in getting me through human behavior 1 and 2 for SW. This price was extremelyordable in the item came extremely fast in the mail. ( less the a week)

Love these things! I'm slowly collecting all the psy and counseling ones. Very useful as grad student.

High quality and delivered on time.

High quality and delivered on time.

Exactly what I am needing to place in my nursing clinical notebook for quick reference.

Knocked the cob webs off just by looking at this. Just what I ordered it for. Liked it a lot

Item did match the picture in the advertisement. I was sort of disappointed

I have yet to fully use this item. I know as I pursue my doctoral degree in psychology it will be beneficial to me.

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