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



FAST FACTS REVIEW
Quick Access

CALCULUS

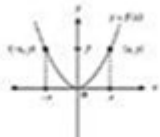
FUNCTIONS

A. GRAPHS

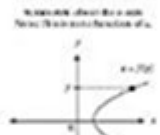
1. Determine the domain and range of the function.

2. Find the intercepts and asymptotes.

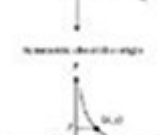
Sketch the graph.



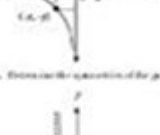
Sketch the graph with the horizontal asymptote.

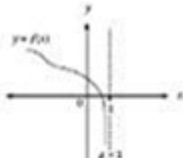


Sketch the graph.

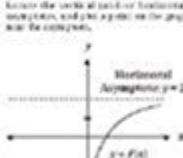


Sketch the graph.





1. Know the vertical and horizontal asymptotes, and plot a point on the graph near the asymptotes.



Rational Functions

$$y = \frac{ax + b}{cx + d}$$

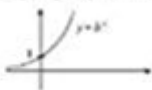
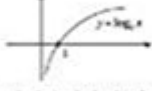
1. Plot the function and its graph.

B. EXPONENTIAL AND LOGARITHMIC FUNCTIONS

1. The base a of $y = a^x$ is a real number $a > 0$, $a \neq 1$, and $x \in \mathbb{R}$.

2. The function $y = \log_a x$ is the inverse of $y = a^x$, i.e., $a^{\log_a x} = x$.

3. Graph of $\log_a x$ is the reflection of $y = a^x$.

LIMITS

A. DEFINITION

Let f be a function. Let a be a real number and L be a real number. We say that $f(x)$ approaches L as x approaches a if for every $\epsilon > 0$, there is a $\delta > 0$ such that $0 < |x - a| < \delta$ implies $|f(x) - L| < \epsilon$.

B. ONE-SIDE LIMITS

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

C. PROPERTIES OF LIMITS

1. $\lim_{x \rightarrow a} (cf(x)) = c \lim_{x \rightarrow a} f(x)$

2. $\lim_{x \rightarrow a} (f(x) \pm g(x)) = \lim_{x \rightarrow a} f(x) \pm \lim_{x \rightarrow a} g(x)$


3. $\lim_{x \rightarrow a} (f(x)g(x)) = \lim_{x \rightarrow a} f(x) \lim_{x \rightarrow a} g(x)$


4. $\lim_{x \rightarrow a} \frac{f(x)}{g(x)} = \frac{\lim_{x \rightarrow a} f(x)}{\lim_{x \rightarrow a} g(x)}$ provided $\lim_{x \rightarrow a} g(x) \neq 0$

D. SPECIAL LIMITS

1. $\lim_{x \rightarrow 0} \frac{\sin x}{x} = 1$

2. $\lim_{x \rightarrow 0} \frac{1 - \cos x}{x} = 0$



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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"

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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 extremely fordable 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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