

CALCULUS 1

Below are some foundational equations for **Calculus 1**, for your review.

Rules for Logarithms
Trigonometric Identities
Graphing Functions

What should be remembered
from Pre-Calculus!

Topics that should be studied

- Limits & Derivatives
- Tangent & Velocity Problems
- Limit of a Function
- Using Limit Laws
- Precise Definition of of a Limit
- Continuity
- Limits at Infinity; Horizontal Asymptotes
- Derivatives and Rate of Change
- Derivative as a function

CALCULUS 1, CONTINUED.

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Differentiation Rules

- Derivatives of Polynomials / Exponential / Logarithmic Functions
- Power Rule, Product Rule, Quotient Rule, Chain Rule
- Implicit Differentiation
- Related Rates
- Linear Approximation

Applications

- Maximum and Minimum Values
- Mean Value Theorem
- L' Hospital's Rule
- Curve Sketching
- Optimization
- Antiderivatives