# Quick Study ACADEMIC

# CALCULUS Equations & Answers™

**Essential Tools for Understanding Calculus – Rules, Concepts, Variables, Equations, 🖊 Examples, 🔵 Helpful Hints & ⚠ Common Pitfalls**

## STRATEGY FOR SOLVING PROBLEMS EFFECTIVELY

I. Understand the **principle** (business or scientific) required.

II. 🔵 Develop a mathematical **strategy**.
  A. There are **eight useful steps** that will help you develop the correct strategy:
   1. **Sketch, diagram** or **chart** the relationships and information that is subject of the problem.
   2. Identify all relevant **variables, concepts** and **constants**.
   3. Describe the problem situations using appropriate mathematical **relationships, functions, formulas, equations** or **graphs**.
   4. Collect all **essential** information and **data**.
   5. ⚠ **Remove** extra and **unnecessary** information and data.
   6. Derive a mathematical expression or statement for the problem, making sure all measurements are in the **correct unit**.
   7. Complete the appropriate **mathematical manipulations** and **solution techniques**.
   8. **Check the final answer** by using the original problem and information to make certain that the answers, units, signs, magnitudes, etc., all make sense and are correct!

## FUNCTIONS

I. **Definitions**
  A. A **relation** is a set of order pairs; written $(x, y)$ or $(x, f(x))$.
  B. A **function** is a relation that has $x$-values that are all different for different $y$-values. A **vertical line test** can be used to determine a function; every vertical line intersects the graph, at most, once.
  C. A **one-to-one function** is a function that has $y$-values that are all different for different $x$-values. A **horizontal line test** can be used to determine a one-to-one function; every horizontal line intersects the graph, at most, once.
  D. **Domain** is the set of all $x$-values of a relation.
  E. **Range** is the set of all $y$-values of a relation.
  F. A function is an **even function** if $f(-x) = f(x)$.
  G. A function is an **odd function** if $f(-x) = -f(x)$.
  H. The one-to-one functions $f(x)$ and $g(x)$ are **inverse functions** if $f(g(x)) = g(f(x)) = x$; $f^{-1}(x)$ and $g^{-1}(x)$ indicate the inverse functions of $f(x)$ and $g(x)$, respectively. Inverse functions are reflections over the line graph of $y = x$.
  I. **Dependent variable** is the output variable in an equation and depends on or is determined by the input variable.
  J. **Independent variable** is the input variable in an equation.

II. **Common Function Summary**
  A. Linear: $f(x) = mx + b$
   1. $m$ is the slope:
    $$m = \frac{y_2 - y_1}{x_2 - x_1} = \frac{y_1 - y_2}{x_1 - x_2} = \frac{\Delta y}{\Delta x} = \frac{rise}{run}$$
   2. $b$ is the $y$-intercept.
   3. It is a **constant** function when $m = 0$; it is a horizontal line.
  B. Absolute value: $f(x) = a|x - h| + k$
   1. $(h, k)$ is the vertex.
   2. If $a > 0$, the graph opens up.

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   3. If $a < 0$, the graph opens down.
   4. $\pm a$ are the slopes of the two sides of the graph.
  C. Square root: $f(x) = a\sqrt{x - h} + k$
   1. $(h, k)$ is the endpoint.
   2. 🔵 If $a > 0$, the graph goes to the right.
   3. 🔵 If $a < 0$, the graph goes to the left.
  D. Polynomial: $f(x) = a_n x^n + a_{n-1} x^{n-1} + \cdots + a_1 x + a_0$
   1. $a_0$ is the $y$-intercept.
   2. There are, at most, $n$ zeros or $x$-intercepts where $f(x) = 0$.
   3. There are, at most, $n - 1$ points of change or turns in the graph.
   4. 🔵 The extreme left and right sections of the graph both go up or both go down if $n$ is even, and go in opposite directions if $n$ is odd.
  E. Quadratic: $f(x) = a(x - h)^2 + k$
   1. This is a special case of a polynomial.
   2. $(h, k)$ is the vertex.
   3. If $a > 0$, the graph opens up.
   4. If $a < 0$, the graph opens down.
   5. Use quadratic formula to solve for the zeros or $x$-intercepts: $x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$
  F. Rational: $f(x) = \frac{p(x)}{q(x)}$
   1. $p(x)$ and $q(x)$ are polynomials, and $q(x) \neq 0$.
   2. If degree $p(x) <$ degree $q(x)$, the asymptote is the $x$-axis where $y = 0$.
   3. If degree $p(x) =$ degree $q(x)$, the asymptote is $y =$ (lead coefficient of $p(x)$)/(lead coefficient of $q(x)$).
   4. If degree $p(x) >$ degree $q(x)$, the asymptote is $y =$ (the quotient of $p(x) \div q(x)$); a diagonal asymptote.
  G. Exponential: $f(x) = a^x$
   1. $a > 0$ and $a \neq 1$.
   2. If $a > 1$, the function is increasing.
   3. If $a < 1$, the function is decreasing.
   4. Rules for exponents:
    a. $x^a \cdot x^b = x^{a+b}$
    b. $\dfrac{x^a}{x^b} = x^{a-b}$
    c. $(x^a)^b = x^{ab}$
    d. $x^{-a} = \dfrac{1}{x^a}$
    e. $\dfrac{1}{x^{-a}} = x^a$
    f. $(xy)^a = x^a y^a$
    g. $\dfrac{x^a}{y^a} = \dfrac{x^a}{y^a}$
    h. $x^{\frac{a}{b}} = \sqrt[b]{x^a} = (\sqrt[b]{x})^a$
    i. $\sqrt[a]{xy} = \sqrt[a]{x} \cdot \sqrt[a]{y}$
    j. $\sqrt[a]{\dfrac{x}{y}} = \dfrac{\sqrt[a]{x}}{\sqrt[a]{y}}$
    k. $\sqrt[a]{\sqrt[b]{x}} = \sqrt[ab]{x}$
    l. If $x^a = x^b$, then $a = b$.
    m. If $a^x = b^x$, then $a = b$ if $x \neq 0$.
  H. Logarithmic: $f(x) = \log_a x$
   1. $x > 0$
   2. $a > 0$ and $a \neq 1$.
   3. ⚠ $f(x) = \log_a x$, **if and only if**, $a^{f(x)} = x$.
   4. $a$ is the base.
   5. Logarithms are exponents.
   6. Rules for logarithms:
    a. $\log_a 1 = 0$
    b. $\log_a a = 1$
    c. $\log_a a^x = x$
    d. $a^{\log_a x} = x$
    e. If $\log_a x = \log_a y$, then $x = y$.

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    f. $f(x) = \log_e x = \ln x$; this is the **natural log**.
    g. $\log_a x = \dfrac{\log_b x}{\log_b a} = \dfrac{\ln x}{\ln a}$; this is the **change-of-base rule**.
    h. $\log_a x^y = y \log_a x$
    i. $\log_a \dfrac{x}{y} = \log_a x - \log_a y$
    j. $\log_a x^y = y \log_a x$

I. **Trigonometric**
  1. Basics
   a. 🔵 Angles can be measured in degrees and radians.
    i. 1 radian $= \left(\dfrac{180}{\pi}\right)$ degrees
    ii. 1 degree $= \left(\dfrac{\pi}{180}\right)$ radians
    iii. proportion conversion of angle measurements: $\dfrac{\text{angle in degrees}}{180°} = \dfrac{\text{angle in radians}}{\pi \text{ radians}}$
    iv. unit circle
     (a) center at $(0, 0)$
     (b) radius = one unit
     (c) points on the circle = $P(x, y)$
     (d) 🔵 Positive angles move counterclockwise from $P(1, 0)$.
     (e) 🔵 Negative angles move clockwise from $P(1, 0)$.
     (f) 🔵 Angles rotating one or more full times require adding $\pm 2\pi$ for each rotation.
    v. function definitions
     (a) $\sin\theta = y$
     (b) $\cos\theta = x$
     (c) $\tan\theta = \dfrac{y}{x}$
     (d) $\csc\theta = \dfrac{1}{y}$
     (e) $\sec\theta = \dfrac{1}{x}$
     (f) $\cot\theta = \dfrac{x}{y}$
    vi. 🔵 useful values
     $\theta$ = degrees; $r$ = radians; Ø = undefined

| $\theta$ | 0 | 30 | 45 | 60 | 90 | 180 |
|---|---|---|---|---|---|---|
| $r$ | 0 | $\frac{\pi}{6}$ | $\frac{\pi}{4}$ | $\frac{\pi}{3}$ | $\frac{\pi}{2}$ | $\pi$ |
| sin | 0 | $\frac{1}{2}$ | $\frac{\sqrt{2}}{2}$ | $\frac{\sqrt{3}}{2}$ | 1 | 0 |
| cos | 1 | $\frac{\sqrt{3}}{2}$ | $\frac{\sqrt{2}}{2}$ | $\frac{1}{2}$ | 0 | −1 |
| tan | 0 | $\frac{\sqrt{3}}{3}$ | 1 | $\sqrt{3}$ | Ø | 0 |

  2. Graphing properties
   a. **Amplitude** of sine and cosine is half the difference between the maximum and the minimum values, or $|a|$.
   b. **Period** is the radians needed to complete one full cycle of the curve, or $\dfrac{2\pi}{b}$.
   c. **Horizontal shift** or **phase shift** is $c$.
   d. **Vertical shift** or **average value** is $d$.
   e. Sine: $f(x) = a\sin b(x - c) + d$
   f. Cosine: $f(x) = a\cos b(x - c) + d$
   g. Tangent: $f(x) = a\tan b(x - c) + d$
    ⚠ [CAUTION! Tangent has no amplitude, so $a$ affects the vertical stretch and shrink only.]
   h. Cosine is even; sine & tangent are odd.
  3. Important identities & formulas

# Calculus 111 Study Guide

**Ping Wang,Fred Szabo**

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