

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. **Highlight** 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;
 $m = \frac{y_2 - y_1}{x_2 - x_1} = \frac{y_2 - y_1}{x_2 - x_1} = \frac{\Delta y}{\Delta x} = \frac{\text{rise}}{\text{run}}$
 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.

3. If $a < 0$, the graph opens down.
4. a and 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: $f(x) = a_n x^n + a_{n-1} x^{n-1} + \dots + a_1 x + a_0$
 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. $a^m \cdot a^n = a^{m+n}$
 - b. $\frac{a^m}{a^n} = a^{m-n}$
 - c. $(a^m)^n = a^{mn}$
 - d. $a^{-n} = \frac{1}{a^n}$
 - e. $\frac{1}{a^{-n}} = a^n$
 - f. $(xy)^n = x^n y^n$
 - g. $\frac{x^a}{x^b} = \frac{x^a}{x^b}$
 - h. $x^{\frac{a}{b}} = \sqrt[b]{x^a} = (\sqrt[b]{x})^a$
 - i. $\sqrt[n]{xy} = \sqrt[n]{x} \cdot \sqrt[n]{y}$
 - j. $\sqrt[n]{\frac{x}{y}} = \frac{\sqrt[n]{x}}{\sqrt[n]{y}}$
 - k. $\sqrt[n]{\sqrt[n]{x}} = \sqrt[n^2]{x}$
 5. If $x^a = x^b$, then $a = b$.
 6. 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. **IF** $f(x) = \log_a x$, **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 $x = y$.

- i. $f(x) = \log_e x = \ln x$; this is the natural log.
- g. $\log_a x = \frac{\log_b x}{\log_b a} = \frac{\log x}{\log a} = \frac{\ln x}{\ln a}$; this is the change-of-base rule.
- h. $\log_a xy = \log_a x + \log_a y$
- i. $\log_a \frac{x}{y} = \log_a x - \log_a y$
- 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 = $\left(\frac{180}{\pi}\right)$ degrees
 - ii. 1 degree = $\left(\frac{\pi}{180}\right)$ radians
- ii. proportion conversion of angle measurements:
 $\frac{\text{angle in degrees}}{180^\circ} = \frac{\text{angle in radians}}{\pi \text{ radians}}$
- 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) $\sin \theta = \frac{y}{r}$
- (b) $\cos \theta = \frac{x}{r}$
- (c) $\tan \theta = \frac{y}{x}$
- (d) $\csc \theta = \frac{1}{\sin \theta}$
- (e) $\sec \theta = \frac{1}{\cos \theta}$
- (f) $\cot \theta = \frac{x}{y}$

vi. useful values

θ = degrees; r = radians; \emptyset = undefined

θ	0	30	45	60	90	180
r	0	$\frac{\pi}{6}$	$\frac{\pi}{4}$	$\frac{\pi}{3}$	$\frac{\pi}{2}$	π
\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	$\sqrt{3}$	\emptyset	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 $\frac{2\pi}{|a|}$.
- 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

Students Guide To Calculus

**Howard Anton,Irl C. Bivens,Stephen
Davis**



Students Guide To Calculus:

Student's Guide to Calculus by J. Marsden and A. Weinstein Frederick H. Soon, 1985-08-15 This Student Guide is exceptional maybe even unique among such guides in that its author Fred Soon was actually a student user of the textbook during one of the years we were writing and debugging the book He was one of the best students that year by the way Because of his background Fred has taken in the Guide the point of view of an experienced student tutor helping you to learn calculus While we do not always think Fred's jokes are as funny as he does we appreciate his enthusiasm and his desire to enter into communication with his readers since we nearly always agree with the mathematical judgements he has made in explaining the material we believe that this Guide can serve you as a valuable supplement to our text To get maximum benefit from this Guide you should begin by spending a few moments to acquaint yourself with its structure Once you get started in the course take advantage of the many opportunities which the text and Student Guide together provide for learning calculus in the only way that any mathematical subject can truly be mastered through attempting to solve problems on your own As you read the text try doing each example and exercise your self before reading the solution do the same with the quiz problems provided by Fred

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