

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. $\frac{x^a}{x^b} = \frac{x^a x^c}{x^b x^c} = \frac{x^{a+c}}{x^{b+c}}$
 - 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
- iii. proportion conversion of angle measurements:
angle in degrees $\frac{\text{angle in radians}}{180^\circ}$
- 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 $\frac{2\pi}{B}$.
- 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

Study Guide To Calculus

Jack Rudman



Study Guide To Calculus:

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