



# CALCULUS 1

FUNCTIONS, LIMITS AND DERIVATIVES FOR FIRST YEAR CALCULUS STUDENTS

## FUNCTIONS

### DEFINITIONS

- function.** A correspondence that assigns one value (output) to each member of a given set. The given set of inputs is called the **domain**. The set of outputs is called the **range**. One-variable calculus deals with real-valued functions whose domain is a set of real numbers. If a domain is not specified, it is assumed to include all inputs for which there is a real number output.
- notation.** If a function is named  $f$ , then  $f(x)$  denotes its value at  $x$ , or " $f$  evaluated at  $x$ ." If a function gives a quantity  $y$  in terms of a variable quantity  $x$ , then  $x$  is called the **independent variable** and  $y$  the **dependent variable**. I view a function by an equation such as  $y = x^2$ , one may think of  $y$  as shorthand for the function's expression. The notation  $x \mapsto x^2$  (" $x$  maps to  $x^2$ ") is another way to refer to the function. The expression  $f(x)$  for a function at an arbitrary input  $x$  often stands in for the function itself.
- graph.** The graph of a function  $f$  is the set of ordered pairs  $(x, f(x))$ , presented visually with a Cartesian coordinate system. The vertical line test states that a curve in the graph of a function if every vertical line meets the curve at most once. An equation  $y = f(x)$  often refers to the set of points  $(x, y)$  satisfying the equation, in this case the graph of the function  $f$ . The **zeros** of a function are the inputs  $x$  for which  $f(x) = 0$ , and they give the **x-intercepts** of the graph.
- even and odd.** A function  $f$  is even if  $f(-x) = f(x)$ , e.g.,  $x^2$ ; odd if  $f(-x) = -f(x)$ , e.g.,  $x^3$ .  $x^2$ ,  $x^4$ ,  $x^6$  are neither.

### NUMBERS

- Rational numbers.** A rational number is a ratio  $p/q$  of integers  $p$  and  $q$ , with  $q \neq 0$ . There are infinite ways to represent a given rational number, but there is a unique "lowest-terms" representative. The set of all rational numbers forms a closed system under the usual arithmetic operations.
- Real numbers.** In this guide,  $\mathbb{R}$  denotes the set of real numbers.  $\mathbb{R}$  numbers may be thought of as the numbers represented by infinite decimal expansions. Rational numbers terminate in all zeros or have a repeating segment of digits.  $\mathbb{R}$  numbers that are not rational are called **irrational**. E.g.,  $\pi$ , the ratio of circumference to diameter of a circle, is irrational; it may be approx  $\pi \approx 3.14$  by rational numbers, e.g.,  $\frac{22}{7}$  and  $\frac{355}{113}$ .

- Machine numbers.** A calculator or computer approximately represents real numbers using a fixed number of digits, usually between and . Machine calculations are therefore usually not exact. This can cause anomalies in plots. The **precision** of a numerical result is the number of correct digits, (most digits after appropriate rounding:  $\pi \approx 3.14$  for  $\pi$  has two correct digits.) The **accuracy** refers to the number of correct digits after the decimal point.
- Intervals.** If  $a < b$ , the open interval  $(a, b)$  is the set of real numbers  $x$  such that  $a < x < b$ . The closed interval  $[a, b]$  is the set of  $x$  such that  $a \leq x \leq b$ . The notation  $(-\infty, a)$  denotes the "half-line" consisting of all real numbers  $x$  such that  $x < a$  (or  $-\infty < x < a$ ). Likewise, there are intervals of the form  $(-\infty, a]$ ,  $(a, \infty)$ , and  $[a, \infty)$ . The symbol  $\infty$  is not to be thought of as a number, but a convenient symbol in these and other notations. The whole real line is an interval,  $\mathbb{R} = (-\infty, \infty)$ .

### NEW FROM OLD

- Arithmetic.** The scalar multiple of a function  $f$  by a constant  $c$  is given by  $(cf)(x) = c \cdot f(x)$ . The sum  $f + g$ , product  $fg$ , and quotient  $f/g$  of functions  $f$  and  $g$  are defined by:  

$$(f+g)(x) = f(x) + g(x),$$

$$(fg)(x) = f(x)g(x),$$

$$(f/g)(x) = f(x)/g(x).$$
 In each case, the domain of the new function is the intersection of the domains of  $f$  and  $g$ , with the zeros of  $g$  excluded for the quotient.
- Composition.** If  $f$  and  $g$  are functions, " $f$  composed with  $g$ " is the function  $f \circ g$  given by  $(f \circ g)(x) = f(g(x))$  with domain (strictly speaking) the set of  $x$  in the domain of  $g$  for which  $g(x)$  is in the domain of  $f$ . E.g.,  $\sqrt{1-x^2}$  is the square root composed with  $x \mapsto 1-x^2$ , with domain  $[-1, 1]$ .
- Translations.** The graph of  $x \mapsto f(x-a)+b$  is the graph of  $f$  translated by  $a$  units to the right, e.g.,  $f(x)$ ,  $f(x-a)+b$  would be on the graph. The graph of  $x \mapsto f(x)+b$  is the graph of  $f$  translated  $b$  units upward.



- Inverses.** An inverse of a function  $f$  is a function  $g$  such that  $g(f(x)) = x$  for all  $x$  in the domain of  $f$ . A function  $f$  has an inverse if and only if it is

one-to-one; for each of its values  $y$  there is only one corresponding input; or,  $f(x) = y$  has only one solution; or, any horizontal line meets the graph of  $f$  at most once. E.g.,  $x^2$  is one-to-one,  $x^2$  is not, strictly increasing or decreasing functions are one-to-one.

There can be only one inverse defined on the range of  $f$ , denoted  $g = f^{-1}$ . For any  $y$  in the range of  $f$ ,  $f^{-1}(y)$  is the  $x$  that solves  $f(x) = y$ . If the axes have the same scale, the graph of  $f^{-1}$  is the reflection of the graph of  $f$  across the line  $y = x$ .

- Implicit functions.** A relation  $F(x, y) = c$  often admits  $y$  as a function of  $x$ , in one or more ways. E.g.,  $x^2 + y^2 = 4$  admits  $y = \sqrt{4-x^2}$ . Such functions are said to be implicitly defined by the relation. Typically  $y$ , the relation gives a curve, and a piece of the curve satisfying the vertical line test is the graph of an implicit function. Often, there is no expression for an implicit function in terms of elementary functions. E.g.,  $x^2 + 2y + y^2 = 4$  admits  $y = f(x)$  with  $f(0) = 2$  and  $f(2) = 0$ , but there is no formula for  $f(x)$ .

## ELEMENTARY ALGEBRAIC FUNCTIONS

- Constant and Identity.** A constant function has only one output:  

$$f(x) = c.$$
 The identity function is:  

$$x \mapsto x, \text{ or } f(x) = x.$$
- Absolute value.**  $|x| = \begin{cases} x & \text{if } x \geq 0 \\ -x & \text{if } x < 0 \end{cases}$   
 The above is an example of a **piecewise definition**. For any  $x$ ,  $\sqrt{x^2} = |x|$ .
- Linear functions.** For a linear function, the difference of two outputs is proportional to the difference of inputs. The proportionality constant, i.e., the ratio of output difference to input difference  

$$m = \frac{y_2 - y_1}{x_2 - x_1}$$
 is called the **slope**. The slope is also the change in the function per unit increase in the independent variable. The linear function  

$$f(x) = mx + b$$
 has slope  $m$  and  $y$ -intercept  $f(0) = b$ , the graph is a straight line. The linear function with value  $y_0$  at  $x_0$  and slope  $m$  is  

$$f(x) = y_0 + m(x - x_0).$$
- Quadratics.** These have the form  

$$f(x) = ax^2 + bx + c \text{ where } (a \neq 0).$$
 The normal form is  $f(x) = a(x-h)^2 + k$ . One has  $h = -b/(2a)$  and  $k = f(h)$ . The graph is a parabola with vertex  $(h, k)$ , opening up or down according as  $a > 0$  or  $a < 0$ , and symmetric about the vertical line through vertex. A quadratic has two, one, or no zeros accordingly.

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**Reza Nazari, Ava Ross**



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