



# Pre-Calculus

## Functions

A **function** is a relation in which each element of the domain (independent variable) is paired with only one element of the range (dependent variable). In many cases  $x$  is the independent variable and  $y$  or  $f(x)$  is the dependent variable. In this guide  $y$  and  $f(x)$  are interchangeable.



A function



Not a function



A function



A function

A relation can be tested to see whether it is a function by the vertical line test. Draw a vertical line through any graph, and if it hits an  $x$ -value more than once, it is not a function.

### Linear Functions

A function is a linear function if it can be written in the form  $f(x) = mx + b$  or  $y = mx + b$  where  $m$  is the slope and  $b$  is the  $y$ -intercept.

EX:  $f(x) = 4x - 1$  is a linear function. The slope is  $\frac{4}{1}$  (rise over run), and the  $y$ -intercept is  $-1$ .

The standard form of a linear function is  $0 = Ax + By + C$ . The slope is  $m = -\frac{A}{B}$ , and the  $y$ -intercept is  $-\frac{C}{B}$ .

The zeros of a function are found by setting  $y$  to 0 and solving for  $x$ .

EX: Find the zeros of  $f(x) = 4x - 1$ .

$$0 = 4x - 1 \quad -1 = 4x \quad -\frac{1}{4} = x$$

### Polynomial Functions

A function is a polynomial function if it can be written in the form  $f(x) = ax^n + bx^{n-1} + cx^{n-2} + \dots + dx + e$ .

The greatest power of a polynomial with one variable is called its **degree**.  
When the degree of the function is an odd integer, there is at least one real zero.

When the degree is an even integer, there may be no real zeros.

Both types can have imaginary roots of the form  $a + bi$ .

EX:  $f(x) = 2x^4 + x^3 + x + 10$  has a degree of 4. There are four roots to this polynomial.

EX:  $f(x) = 2x^3 + x^2 - 2x + 3$  has a degree of 3. This function has one real zero at  $x = -1.17$  and two non-real roots. (see graph)

EX:  $f(x) = x^2 + 1$  has a degree of 2. This function has two non-real roots. Its graph does not cross the  $x$ -axis.


 $x = -1.17213$   
 $y = 0.00086$ 

### Quadratic Functions

One commonly studied polynomial function is a quadratic function.

A quadratic function takes the form  $f(x) = ax^2 + bx + c$ .

The graph of a quadratic equation is a **parabola**.

Some parabolas represent quadratic equations but not quadratic functions. (see graph)

Quadratic equations can have zero, one, or two solutions.

The vertex of a parabola is its **critical point**. This is where the graph changes from increasing to decreasing or from decreasing to increasing.

The quadratic formula  $x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$  can be used to find the roots of all quadratic equations.

The value under the square root symbol is the **discriminant**. It tells the type of roots of a quadratic equation.

$b^2 - 4ac > 0$ , two distinct real roots

$b^2 - 4ac = 0$ , exactly one real root

$b^2 - 4ac < 0$ , no real roots (two distinct imaginary roots)

EX: Find the roots of  $f(x) = x^2 - 4x + 1$

The discriminant  $b^2 - 4ac$  is  $(-4)^2 - 4(1)(1) > 0$ , so there are two real roots.

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a} = \frac{-(-4) \pm \sqrt{4^2 - 4(1)(1)}}{2(1)}$$

$$x = 3.732 \text{ and } x = 0.267$$

EX: Find the number and type of the roots of  $f(x) = 2x^2 + 2x + 1$

The discriminant is less than 0, so there are two imaginary roots. A graph of this function does not cross the  $x$ -axis.



EX: Find the number and type of the roots of  $f(x) = x^2 + 2x + 1$ . The discriminant is 0, so there is one real root. A graph of this function intersects the  $x$ -axis in one place, at  $-1$ .

### Rational Functions

A function is a rational function if it can be written in the form  $f(x) = \frac{g(x)}{h(x)}$ .

EX:  $f(x) = \frac{x}{x+3}$ ,  $f(x) = \frac{2}{x}$ , and  $f(x) = \frac{1}{x-2} + 3$  are rational functions.

The parent function for all rational functions is  $f(x) = \frac{1}{x}$ .

The graph of the parent rational function consists of two parts, one in quadrant I and one in quadrant III.

The branches of rational functions approach asymptotes.


A rational function with asymptotes at  $x = 0$  &  $y = 0$ .

### Operations of Functions

**Sum:**  $(f + g)(x) = f(x) + g(x)$

**Difference:**  $(f - g)(x) = f(x) - g(x)$

**Product:**  $(f \cdot g)(x) = f(x) \cdot g(x)$

**Quotient:**  $\left(\frac{f}{g}\right)(x) = \frac{f(x)}{g(x)}$ ,  $g(x) \neq 0$

EX: Given  $f(x) = x + 2$  and  $g(x) = \frac{x}{x-4}$

Find the difference:  $(f - g)(x) = x + 2 - \frac{x}{x-4} = \frac{(x+2)(x-4) - x}{x-4} = \frac{x^2 - 3x - 8}{x-4}$ ,  $x \neq 4$

Find the product:  $(f \cdot g)(x) = (x + 2) \cdot \left(\frac{x}{x-4}\right) = \frac{x^2 + 2x}{x-4}$ ,  $x \neq 4$

Find the quotient:  $\left(\frac{f}{g}\right)(x) = \frac{x+2}{\frac{x}{x-4}} = (x+2) \cdot \left(\frac{x-4}{x}\right) = \frac{x^2 - 2x - 8}{x}$ ,  $x \neq 0$

### Composition of Functions

**$(f \circ g)(x) = f(g(x))$**

EX: Given  $f(x) = x + 2$  and  $g(x) = \frac{x}{x-4}$ , find  $(f \circ g)(x)$

$x + 2$  becomes  $\left(\frac{x}{x-4}\right) + 2 = \frac{x}{x-4} + \frac{2(x-4)}{x-4} = \frac{x + 2x - 8}{x-4} = \frac{3x - 8}{x-4}$ ,  $x \neq 4$

EX: Using the same functions, find  $(g \circ f)(x)$ .  $\left(\frac{x}{x-4}\right)$  becomes  $\frac{\frac{x}{x-4} + 2}{\frac{x}{x-4} - 4} = \frac{x + 2}{x - 2}$ ,  $x \neq 2$

### Inverse Functions

To find the inverse of a function, interchange  $x$  and  $y$  and solve the equation for  $y$ .

EX: Find the inverse of  $y = 5x - 2$

Interchange  $x$  and  $y$ :  $x = 5y - 2$

$$x + 2 = 5y \quad \frac{x+2}{5} = y$$

To show two functions are inverses, show that  $(f \circ g)(x) = x$  and  $(g \circ f)(x) = x$

EX: Given  $f(x) = 2x - 4$ ,  $g(x) = \frac{x+4}{2}$ ,  $(f \circ g)(x) = 2\left(\frac{x+4}{2}\right) - 4 = x$ , and

$$(g \circ f)(x) = \frac{(2x - 4) + 4}{2} = x$$

### Families of Functions

A **parent graph** is the basic graph in a family. All the other family members translate, rotate, reflect, shrink, or stretch based on changes in values.

For a general quadratic function,  $f(x) = a(x + h)^2 + c$ , the following rules show how the function is transformed.

When  $a$  is negative, the graph reflects across the  $x$ -axis.

When  $a$  is between 0 and 1, the graph shrinks or compresses.

When  $a$  is greater than 1, the graph expands.

When  $h$  is positive, the graph translates to the left.

When  $h$  is negative, the graph translates to the right.

When  $c$  is positive, the graph translates up.

When  $c$  is negative, the graph translates down.

Note: The parent function (in this case quadratic) could also be an absolute value function, a rational function, an exponential function, etc.

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**Annelies Wilder-Smith**



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web time delay relays are commonly used in large motor control circuits to prevent the motor from being started or reversed until a certain amount of time has elapsed from an event related worksheets ac motor control circuits worksheet dc motor control circuits worksheet electromechanical relay logic worksheet

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web mar 22 2023 1 voltage is low acts as under voltage release 2 any temporary interruption of power to the solenoid thermal overload relay ol overload relay thermal overload relay made with bimetallic elements with ambient temperature compensator compensation range 5 o c to 60 o c

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web dec 3 2019 this handbook of electric machines gives a high level orientation regarding the different kind of motors generators incl their structures and functionalities characteristics and controls notable features and ratings strengths and weaknesses predominant applications the operation principles and characteristics of the d

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web the phase currents of the a b and c phases the position of the rotor the dc voltage at the input of the motor controller other signals such as iq id the duty cycles and etc are all generated using the math above such as the clarke and park transforms current controllers and svm

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web interpret this ac motor control circuit diagram explaining the meaning of each symbol l1 l2 run m1 to 3 phase motor power source m1 m1 also explain the operation of this motor control circuit what happens when someone actuates the run switch what happens when they let go of the run switch file 00835 5

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web the control circuit is based on a cmos inverter ic1 type 40106 the motor is switched by a darlington with discrete components t1 t2 ic1a inverter operates as an oscillator whose duty cycle the t2 leads so the motor receives energy is determined by r2 c2 d3 gave the inactive signal oscillator when t2 is blocked is determined by r3 p1

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web three phase brushless dc 3 motor 2 brush dc motor 4 bipolar stepper motor basic principle an electric motor is a device converting electrical energy into mechanical energy generally a torque this conversion is usually obtained through the generation of a magnetic field by means of a current flowing into one or more coils electrical energy

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web the diagram below has two components the normally open temperature switch and the magnetic contactor the three normally closed contacts that represent the olr protection are connected in series with the motor coil and so can be treated as a single device in practice a motor starter often only has two external connection points and all internal

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web motor control circuits are often connected to lower voltages than the motor they control to make it safer for operators

and maintenance personnel

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web first the ladder diagram next the schematic diagram based on your observations of these two diagrams explain how electromechanical relays are represented differently between ladder and schematic diagrams question 2 interpret this ac motor control circuit diagram explaining the meaning of each symbol

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web describe common methods of drawing power and control circuits describe the different applications of schematic and wiring diagrams apply a numbering system to convert from one style of diagram to another identify and connect three phase nine lead wye and delta wound motors

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web ically when voltage returns the control circuit is completed through the stop button and also a holding contact 2 3 on the starter when starter drops out this contact opens breaking the control circuit until the start button is pressed once again l3 t3 t

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web feb 26 2023 this article explains several common control circuit designs for the most typical three phase motor requirements if the motor needs to drive forward and reverse or if it needs a variable speed control then there must be a specific circuit used to drive such an application figure 1

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web jun 2 2002 hobby circuit designed by david johnson p e february 2010 12v pwm motor light controller the diagrams are for 12v operation only and there are high side common ground and low side common 12v versions the low side version of the circuit uses an n channel fet the high side version of the circuit uses a p channel fet

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web motor contactor or starter coils are typically designated by the letter m in ladder logic diagrams

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web an mcc comprises three buses for a three phase system and the cabinet consists of a circuit breaker a motor starter and a control transformer however the actual contents vary widely as per requirements the circuit breaker has a handle that goes through the door to switch it off without opening it for safety purposes

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web sep 10 2023 wiring diagrams show the connections to the controller wiring diagrams sometimes called main or construction diagrams show the actual connection points for the wires to the components and terminals of the controller

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