



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 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.

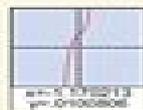
- When the degree is an even integer, there may be no real zeros.

- 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 zeros. (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.



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.



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

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 $\frac{x+2}{x+2-4} = \frac{x+2}{x-2}$, $x \neq 2$

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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the manufacturer s default injection timing is 6 5 deg before tdc the only major changes from the 1kd ftv to the 2kd ftv were the bore and the stroke in 2005 denso corporation introduced the 3rd generation of common rail system

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toyota 1kd 2kd engine common rail system crs service engine - Aug 07 2022

the construction operation and control of main crs components supply pump injectors rail are identical to the components described in the previously issued common rail system for toyota hilux kijang innova innova 1kd 2kd doc id 00400077

primary changes and additions are listed below

toyota 2kd ftv engine specs - Mar 14 2023

to reduce mass and noise the 2kd ftv engine used a plastic cylinder head cover the intake camshaft is driven by a timing belt and the intake camshaft drives the exhaust camshaft by a gear the 2kd ftv engine has four valves per cylinder two intakes and two exhaust 16 in total

maintenance schedule hilux 2006 2016 toyota gib - Jul 06 2022

maintenance operations inspect and correct or replace as necessary replace change or lubricate lubricate notes type a 1kd ftv and 2kd ftv engines for south africa and thailand type b 2kd ftv engine for jordan and saudi arabia after 80 000 km 48 000 miles or 48 months inspect every 20 000 m 12 000 miles or 12 months

toyota 2kd engine contrl pdf throttle fuel injection scribd - May 16 2023

during starting to facilitate startability the engine ecu optimally controls the injection control volume and injection timing during starting see page eg 158 idle speed the engine ecu determines the idle speed in accordance with the engine control condition and controls the fuel injection volume in order to maintain the