



# Pre-Calculus

## Equations & Answers

### FUNCTIONS & THEIR GRAPHS

#### Definitions

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

#### Linear Functions

- A function whose graph is a non-vertical line or part of a non-vertical line. There are 3 forms of linear equations: slope-intercept, point-slope, and standard form.
- Slope-intercept form:**  $y = mx + b$ , where  $m$  is the slope and  $b$  is the  $y$ -intercept of the line.
    - EX: If a line has a slope of 3 and  $y$ -intercept of 1, the equation is  $y = 3x + 1$ .
  - Point-slope form:**  $y - y_1 = m(x - x_1)$ , where  $m$  is the slope and  $(x_1, y_1)$  is a point on the line.
    - EX: If a line has a slope of  $-2$  and contains the point  $(5, -4)$ , the equation is  $y - (-4) = -2(x - 5)$  or  $y + 4 = -2(x - 5)$ .
  - Standard form:**  $Ax + By = C$ , where  $A$ ,  $B$ , and  $C$  are integers and  $A$  is positive. The slope is  $-\frac{A}{B}$  and the  $y$ -intercept is  $\frac{C}{B}$ . This form of a line is most often used to find intercepts by plugging 0 in for  $x$  and  $y$  separately and solving.
    - EX: Given the line  $3x + 2y = 4$ , the slope is  $-\frac{3}{2}$  and the  $y$ -intercept is 2. The intercepts can also be found by substitution:
      - $x$ -intercept (plug in 0 for  $y$ ):  $3x + 2(0) = 4$   $3x = 4$   $x = \frac{4}{3}$
      - $y$ -intercept (plug in 0 for  $x$ ):  $3(0) + 2y = 4$   $2y = 4$   $y = 2$

#### 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 odd, there is at least one real zero, when the degree is even, there may be no real zeros.
    - Both types can have imaginary roots of the form  $a + bi$ .
  - EX:  $f(x) = 2x^3 + 3x^2 - x + 4$  has a degree of 3, one real zero at  $x = -2.1601$ , and two non-real roots.

#### Quadratic Functions

- Written in the form  $f(x) = ax^2 + bx + c$ , where  $a \neq 0$ .
- The **axis of symmetry** is the vertical line with equation  $x = -\frac{b}{2a}$ .
  - The  $y$ -intercept is  $c$ .
  - Quadratic functions can be written in **vertex form**,  $f(x) = a(x - h)^2 + k$ , where  $(h, k)$  is the vertex of a parabola that opens up when  $a > 0$  and opens down when  $a < 0$ .
  - Quadratic functions can have none, one, or two real-number solutions.
  - The graph is a parabola if the parabola opens left or right—it is not a function.
  - The vertex is the **critical point** where the graph changes from increasing to decreasing or decreasing to increasing.

#### Methods for Finding Roots

Equation	Method	Justification	Solution
$x^2 - 9 = 0$	Square Roots	There is no $x$ -term.	$x^2 - 9 = 0$ $x^2 = 9$ $x = 3$ or $-3$
$x^2 + 2x - 8 = 0$	Factoring	It has only a few factors to check.	$x^2 + 2x - 8 = 0$ $(x + 4)(x - 2) = 0$ $x = -4$ or $2$
$2x^2 + 5x - 9 = 0$	Quadratic Formula	The equation cannot be factored.	$x = \frac{-5 \pm \sqrt{5^2 - 4(2)(-9)}}{2(2)}$ $x = \frac{-5 \pm \sqrt{95}}{4}$
$x^2 - 8x + 3 = 0$	Completing the Square or Quadratic Formula	The coefficient of the $x^2$ -term is 1 but the equation cannot be factored.	$x^2 - 8x + 3 = 0$ $x^2 - 8x = -3$ $x^2 - 8x + 16 = -3 + 16$ $(x - 4)^2 = 13$ $x - 4 = \pm\sqrt{13}$ $x = 4 \pm \sqrt{13}$

The **discriminant** is the expression under the radical in the Quadratic Formula and can be used to determine the number of real solutions.

- A function can be identified using the **vertical line test**. If a vertical line passes through the graph of the function in more than one point, the graph is not a function.
- A function can be represented by an equation in terms of  $x$  and  $y$  or with function notation:  $y = 7x - 11$  or  $f(x) = 7x - 11$ .

**Discriminant:**  $b^2 - 4ac > 0$

EX:  $2x^2 - 7x + 3 = 0$

The discriminant is  $(-7)^2 - 4(2)(3) = 25$ , which is positive.

There are two real number solutions.



**Discriminant:**  $b^2 - 4ac = 0$

EX:  $x^2 - 8x + 16 = 0$

The discriminant is  $(-8)^2 - 4(1)(16) = 0$ .

There is one real number solution.



**Discriminant:**  $b^2 - 4ac < 0$

EX:  $2x^2 - 7x + 8 = 0$

The discriminant is  $(-7)^2 - 4(2)(8) = -15$ , which is negative.

There are no real number solutions.



#### Rational Functions

A **rational function** is an equation of the form  $f(x) = \frac{p(x)}{q(x)}$ , where  $p(x)$  and  $q(x)$  are polynomial functions and  $q(x) \neq 0$ .

- Rational functions may have breaks in continuity that appear in the graph as vertical asymptotes or point discontinuities that appear as holes.
- Vertical asymptotes occur where a rational function is undefined.
- Point discontinuities occur where there is a common factor in the numerator and denominator.

**To multiply:** First multiply the numerators, then the denominators.

$$\frac{\frac{x^2-4}{x^2+1} \cdot \frac{x+4}{x-2}}{\frac{x^2-3x+2}{x^2+1} \cdot \frac{x^2+3}{x-1}} = \frac{\frac{(x-2)(x+2)(x+4)}{(x^2+1)(x-2)}}{\frac{(x-2)(x-1)(x^2+3)}{(x^2+1)(x-1)}} = \frac{(x+4)}{(x-1)(x^2+3)}$$

**To divide:** Multiply by the multiplicative inverse (reciprocal) of the divisor.

$$\frac{x^2+3x-10}{x^2+3x+2} \div \frac{x-2}{x+3} = \frac{x^2+3x-10}{x^2+3x+2} \cdot \frac{x+3}{x-2} = \frac{(x+5)(x-2)(x+3)}{(x+2)(x+1)(x-2)} = \frac{(x+5)(x+3)}{(x+2)(x+1)}$$

**Order is important for division.**

**To add and subtract:** There must be a common denominator. To find it for rational expressions with polynomials in the denominator, factor first to determine common factors.

$$\frac{5}{x^2-x-20} + \frac{7}{2x-10} = \frac{5}{(x-4)(x+5)} + \frac{7}{2(x-5)}$$

**Adding:**

Using one of each factor, the LCM is  $2(x-4)(x-5)$ . Multiply each fraction's numerator and denominator by the factors missing from the LCM.

$$= \frac{5}{(x-4)(x-5)} \cdot \frac{2}{2} + \frac{7}{2(x-5)} \cdot \frac{(x-4)}{(x-4)} = \frac{10}{2(x-4)(x-5)} + \frac{7(x-4)}{2(x-5)(x-4)} = \frac{10+7x-28}{2(x-5)(x-4)}$$

$$\text{Subtracting: } \frac{h-4}{h^2+3h-10} - \frac{h+2}{h^2+h-20} = \frac{h-4}{(h-5)(h+2)} - \frac{h+2}{(h-4)(h+5)}$$

Using one of each factor, the LCM is  $(h-2)(h+5)(h-4)$ .

Multiply each fraction's numerator and denominator by the factors missing from the LCM.

**Hint:** The common denominator is the LCM (least common multiple) of the denominators.

**The subtraction sign must be distributed to each part of the numerator of the second fraction.**

$$= \frac{h-4}{(h-2)(h+5)(h-4)} - \frac{h+2}{(h-4)(h+5)(h-2)} = \frac{h^2-8h+20}{(h-2)(h+5)(h-4)} - \frac{h^2-4}{(h-4)(h+5)(h-2)} = \frac{-8h+20}{(h-2)(h+5)(h-4)}$$

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**Lei Shi**

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