



# 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.
- KN:** If a line has a slope of 3 and  $y$ -intercept of 2, the equation is  $y = 3x + 2$ .
- 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.
- KN:** If a line has a slope of -2 and contains the point  $(0, -4)$ , the equation is  $y - (-4) = -2(x - 0)$  or  $y = -2x - 4$ .
- Standard Form:**  $Ax + By = C$ , where  $A$ ,  $B$ , and  $C$  are integers and  $A$  is positive. The slope is  $-B/A$  and the  $y$ -intercept is  $C/B$ . This form of a line is most often used to find intercepts by plugging 0 in for  $x$  and  $y$  separately and solving.
- KN:** Given the line  $3x + 2y = 4$ , the slope is  $-3/2$  and the  $y$ -intercept is 2. The intercepts can also be found by substitution:

$$\begin{aligned}x\text{-intercept (plugging 0 in for }y\text{):} \\3x + 2(0) = 4 \quad 3x = 4 \quad x = \frac{4}{3} \\y\text{-intercept (plugging 0 in for }x\text{):} \\3(0) + 2y = 4 \quad 2y = 4 \quad y = 2\end{aligned}$$

### Polynomial Functions

A function is a polynomial function if it can be written in the form  $f(x) = a_nx^n + a_{n-1}x^{n-1} + a_{n-2}x^{n-2} + \dots + a_1x + a_0$ .

- 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  $a + bi$ .
- KN:**  $f(x) = 2x^3 - 3x^2 - x + 4$  has a degree of 3, one real zero at  $x = -2.1601$ , and two non-real zeros.

### 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	Classification	Solution
$x^2 = 9 = 0$	Square Roots	There is no $x$ -value.	$x^2 = 9$ $x^2 = 9$ $x = 3$ or $x = -3$
$x^2 + 2x - 8 = 0$	Factoring	$x$ has only a few factors to check.	$x^2 + 2x - 8 = 0$ $(x + 4)(x - 2) = 0$ $x = -4$ or $x = 2$
$2x^2 + 5x + 9 = 0$	Quadratic Formula $x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$	The equation cannot be factored.	$x = \frac{-5 \pm \sqrt{25 - 4(2)(9)}}{2(2)}$ $x = \frac{-5 \pm \sqrt{-47}}{4}$
$x^2 - 8x + 3 = 0$	Completing the Square or Quadratic Formula	The coefficient of the $x^2$ -term is 1 but the equation cannot be factored.	$x^2 - 8x + 3 = 0$ $x^2 - 8x + 16 = -3 + 16$ $(x - 4)^2 = 13$ $x - 4 = \pm\sqrt{13}$ $x = 4 \pm \sqrt{13}$

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

**KN:**  $2x^2 - 7x + 3 = 0$   
The discriminant is  $(-7)^2 - 4(2)(3) = 25$ , which is positive.  
There are two real number solutions.



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

**KN:**  $x^2 - 8x = 0$   
The discriminant is  $(-8)^2 - 4(1)(0) = 64$ , which is positive.  
There is one real number solution.



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

**KN:**  $2x^2 - 7x - 8 = 0$   
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.

$$\begin{aligned}\frac{a_1x^2 - 3x + 6}{2x + 10} \cdot \frac{2x + 10}{3x - 15} \\= \frac{(a_1x^2 - 3x + 6)(2x + 10)}{(2x + 10)(3x - 15)}\end{aligned}$$

$$\begin{aligned}\text{Factor out factors:} \\= \frac{a_1x^2 - 3x + 6}{3x - 15}\end{aligned}$$

$$\begin{aligned}a^2 + 3a - 10 &= a - 2 \\a^2 + 3a + 2 &= 3a + 3 \\a^2 + 3a + 2 &= 3a + 3 \\a^2 + 3a + 2 &= a - 2 \\(a + 2)(a + 1) &= 3(a + 1) \\(a + 2)(a + 1) &= a - 2 \\a + 2 &= a - 2 \\a &= 2\end{aligned}$$

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 them to determine common factors.

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

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

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

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

$$\begin{aligned}\frac{10}{2(x - 5)(x + 4)} + \frac{7}{2(x - 5)(x + 4)} \\= \frac{17}{2(x - 5)(x + 4)}\end{aligned}$$

$$\begin{aligned}\frac{5}{(x - 5)(x + 4)} - \frac{3}{2(x - 5)(x + 4)} \\= \frac{5}{(x - 5)(x + 4)} - \frac{3}{2(x - 5)(x + 4)} \\= \frac{5 - 3}{2(x - 5)(x + 4)} \\= \frac{2}{2(x - 5)(x + 4)} \\= \frac{1}{(x - 5)(x + 4)} \\= \frac{1}{(x - 5)(x + 4)}\end{aligned}$$

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

$$\begin{aligned}\frac{5}{(x - 5)(x + 4)} - \frac{3}{2(x - 5)(x + 4)} \\= \frac{5}{(x - 5)(x + 4)} - \frac{3}{2(x - 5)(x + 4)} \\= \frac{5 - 3}{2(x - 5)(x + 4)} \\= \frac{2}{2(x - 5)(x + 4)} \\= \frac{1}{(x - 5)(x + 4)} \\= \frac{1}{(x - 5)(x + 4)}\end{aligned}$$

Using one of each factor, the LCM is  $6(x - 5)(x + 4)$ .  
Multiply each fraction's numerator and denominator by the factors missing from the LCM.

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