



# 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	Identification	Solution
$x^2 = 9 = 0$	Square Roots	There is no $x$ -term.	$x^2 = 9$ $x^2 = 9$ $x = \pm 3$
$x^2 + 2x - 8 = 0$	Factoring	It has only a few factors to check.	$x^2 + 2x - 8 = 0$ $(x + 4)(x - 2) = 0$ $x = -4$ or $2$
$2x^2 + 5x - 3 = 0$	Quadratic Formula $x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$	The equation cannot be factored.	$x = \frac{-5 \pm \sqrt{25 - 4(2)(-3)}}{2(2)}$ $x = \frac{-5 \pm \sqrt{37}}{4}$
$x^2 - 2x - 3 = 0$	Completing the Square or Quadratic Formula	The coefficient of the $x^2$ -term is 1 but the equation cannot be factored.	$x^2 - 2x - 3 = 0$ $x^2 - 2x = 3$ $x^2 - 2x + 4 = 3 + 4$ $(x - 1)^2 = 7$ $x - 1 = \pm\sqrt{7}$ $x = 1 \pm \sqrt{7}$

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.



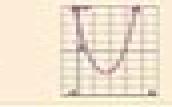
**Discriminant:**  $b^2 - 4ac = 0$

**KN:**  $x^2 - 8x + 16 = 0$   
The discriminant is  $(-8)^2 - 4(1)(16) = 0$ .  
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.

$$\begin{aligned}\frac{a^2 - 8}{2x + 10} \cdot \frac{3x + 6}{x - 2} \\= \frac{(a - 2)(a + 4)}{2(x + 5)} \cdot \frac{3(x + 2)}{(x - 2)}\end{aligned}$$

$$\frac{\text{Factor out factors}}{\text{Cancel factors}} \cdot \frac{\text{Factor out factors}}{\text{Cancel factors}}$$

$$\begin{aligned}\frac{a^2 - 8}{2(x + 5)} \cdot \frac{3(x + 2)}{(x - 2)} \\= \frac{(a - 2)(a + 4)}{2(x + 5)} \cdot \frac{3(x + 2)}{(x - 2)} \\= \frac{(a - 2)(a + 4)}{2(x + 5)(x - 2)} \cdot \frac{3(x + 2)}{(x - 2)} \\= \frac{3(a - 2)(a + 4)}{2(x + 5)}\end{aligned}$$

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.

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

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

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

$$\begin{aligned}\text{Multiply each fraction's numerator and denominator by the factors missing from the LCM.} \\= \frac{5}{x - 2} \cdot \frac{2}{2} \cdot \frac{7}{2(x - 5)} \\= \frac{5(2)}{(x - 2)(2)} \cdot \frac{7}{2(x - 5)} \\= \frac{10}{2(x - 2)(x - 5)} \cdot \frac{7}{2(x - 5)} \\= \frac{70}{4(x - 2)(x - 5)} \\= \frac{70}{4x^2 - 28x + 50}\end{aligned}$$

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

$$\begin{aligned}\text{Subtracting: } \frac{5}{x - 2} - \frac{7}{2x - 10} \\= \frac{5}{x - 2} - \frac{7}{2(x - 5)} \\= \frac{5(2)}{(x - 2)(2)} - \frac{7}{2(x - 5)} \\= \frac{10}{2(x - 2)(x - 5)} - \frac{7}{2(x - 5)}\end{aligned}$$

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

$$\begin{aligned}\text{Using one of each factor, the LCM is } \\(x - 2)(x - 5) \\= \frac{5}{x - 2} - \frac{7}{(x - 2)(x - 5)} \\= \frac{5(x - 5)}{(x - 2)(x - 5)} - \frac{7}{(x - 2)(x - 5)} \\= \frac{5x - 25 - 7}{(x - 2)(x - 5)} \\= \frac{5x - 32}{(x - 2)(x - 5)}\end{aligned}$$

$$\begin{aligned}\text{Subtracting: } \frac{5}{x - 2} - \frac{7}{2x - 10} \\= \frac{5}{x - 2} - \frac{7}{2(x - 5)} \\= \frac{5(2)}{(x - 2)(2)} - \frac{7}{2(x - 5)} \\= \frac{10}{2(x - 2)(x - 5)} - \frac{7}{2(x - 5)} \\= \frac{10 - 7}{2(x - 2)(x - 5)} \\= \frac{3}{2(x - 2)(x - 5)}\end{aligned}$$

Subtracting:  $\frac{5}{x - 2} - \frac{7}{2x - 10}$

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

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