



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:

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

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.	$x^2 = 9$ $x = \pm 3$
$x^2 + 2x - 8 = 0$	Factoring	It has only a few factors to check.	$x^2 + 2x - 8 = 0$ $(x + 4)(x - 2) = 0$ $x = -4 \text{ or } 2$
$2x^2 + 5x - 3 = 0$	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.

$$\begin{aligned} \frac{3x^2 - 8}{2x + 10} \cdot \frac{5x + 10}{3x - 15} \\ = \frac{(3x^2 - 8)(5x + 10)}{(2x + 10)(3x - 15)} \end{aligned}$$

$$\frac{\cancel{(3x^2 - 8)(5x + 10)}}{\cancel{(2x + 10)(3x - 15)}}$$

$$\begin{aligned} \frac{3x^2 - 8}{2x + 10} \cdot \frac{5x + 10}{3x - 15} \\ = \frac{3x^2 - 8}{2x + 10} \cdot \frac{5}{x - 5} \\ = \frac{15x^2 - 40}{2x + 10} \cdot \frac{1}{x - 5} \\ = \frac{15x^2 - 40}{2(x + 5)(x - 5)} \\ = \frac{5x^2 - \frac{40}{3}}{2(x + 5)(x - 5)} \end{aligned}$$

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 denominators, factor them to determine common factors.

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

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

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

$$\begin{aligned} \text{Multiplying each fraction's numerator and denominator by the factors missing from the LCM:} \\ = \frac{3}{x - 2} \cdot \frac{2}{2} \cdot \frac{7}{2} \cdot \frac{x - 5}{x - 5} \\ = \frac{3(2)(7)}{(x - 2)(2)(x - 5)} \cdot \frac{x - 5}{x - 5} \\ = \frac{42}{2(x - 2)(x - 5)} \cdot \frac{x - 5}{x - 5} \\ = \frac{42}{2(x - 2)(x - 5)} \\ = \frac{21}{(x - 2)(x - 5)} \end{aligned}$$

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

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

$$\begin{aligned} = \frac{3x - 15 - 7}{(x - 2)(2x - 10)} \\ = \frac{3x - 22}{(x - 2)(2x - 10)} \\ = \frac{3x - 22}{2(x - 2)(x - 5)} \\ = \frac{3x - 22}{2(x - 2)(x - 5)} \\ = \frac{3(x - 2)(x - 5) - 22}{2(x - 2)(x - 5)} \\ = \frac{3x^2 - 15x - 22}{2(x - 2)(x - 5)} \end{aligned}$$

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

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

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Rose Arny

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