



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 $y = f(x)$ 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.
- KCN:** If a line has a slope of 1 and y -intercept of 2, the equation is $y = x + 2$.
- 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.
- KCN:** If a line has a slope of -2 and contains the point $(0, -4)$, the equation is $y - (-4) = -2(x - 0)$ or $y + 4 = -2(x - 0)$.
- Standard form:** $Ax + By = C$, where A , B , and C are integers and A is positive. The slope is $-\frac{B}{A}$ 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.
- KCN:** Given the line $3x + 2y = 4$, the slope is $-\frac{3}{2}$ and the y -intercept is 2. The x -intercept can also be found by substitution.

x -intercept (plugging in 0 for y):

$$3x + 2(0) = 4 \quad 3x = 4 \quad x = \frac{4}{3}$$

y -intercept (plugging in 0 for x):

$$3(0) + 2y = 4 \quad 2y = 4 \quad y = 2$$

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 $a + bi$.

KCN: $f(x) = 2x^4 - 3x^2 - x + 4$ has a degree of 4, 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 of the parabola opens left or right—it is not a function.
- The vertex is the critical point where the graph changes from decreasing to decreasing or increasing to increasing.

Methods for Finding Roots

| Equation | Method | Description | Notation |
|---------------------|--|--|--|
| $x^2 = 9 = 0$ | Square Roots | There is no x -term. | $x^2 = 9 = 0$ $x^2 = 9$ $x = \pm\sqrt{9} = \pm 3$ |
| $x^2 + 2x - 8 = 0$ | 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 | The equation cannot be factored. | $x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$ $x = \frac{-5 \pm \sqrt{25 - 4(2)(-3)}}{2(2)}$ $x = \frac{-5 \pm \sqrt{37}}{4}$ |
| $x^2 - 8x + 3 = 0$ | Completing the Square or Quadratic Formula | The coefficient of the x -term is 1 but the equation cannot be factored. | $x^2 - 8x + 3 = 0$ $x^2 - 8x = -3 + \dots$ $x^2 - 8x + 16 = -3 + 16$ $(x - 4)^2 = 13$ $x - 4 = \pm\sqrt{13}$ $x = 4 \pm\sqrt{13}$ |

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

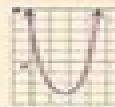
- A function can be identified using the vertical line test. If a vertical line passes through the graph of the function in more than one point, the graph is not a function.
- A function can be represented by an equation in terms of x and y or with function notation: $y = 7x - 3$ or $f(x) = 7x - 3$.

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

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

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

There are two real number solutions.



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

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

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

There is one real number solution.



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

KCN: $2x^2 - 7x + 11 = 0$

The discriminant is $(-7)^2 - 4(2)(11) = -35$, 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, or 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.

$$\begin{aligned} \frac{a_1x^2 - a_2x + a_3}{b_1x^2 - b_2x + b_3} \cdot \frac{c_1x^2 - c_2x + c_3}{d_1x^2 - d_2x + d_3} \\ = \frac{(a_1x^2 - a_2x + a_3)(c_1x^2 - c_2x + c_3)}{(b_1x^2 - b_2x + b_3)(d_1x^2 - d_2x + d_3)} \end{aligned}$$

cancel factors

$$\begin{aligned} \frac{a_1x^2 - a_2x + a_3}{b_1x^2 - b_2x + b_3} \cdot \frac{c_1x^2 - c_2x + c_3}{d_1x^2 - d_2x + d_3} \\ = \frac{a_1x^2 - a_2x + a_3}{b_1x^2 - b_2x + b_3} \cdot \frac{c_1x^2 - c_2x + c_3}{d_1x^2 - d_2x + d_3} \\ = \frac{(a_1x^2 - a_2x + a_3)(c_1x^2 - c_2x + c_3)}{(b_1x^2 - b_2x + b_3)(d_1x^2 - d_2x + d_3)} \end{aligned}$$

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 first to determine common factors.

$$\begin{aligned} \frac{a}{b} + \frac{c}{d} &= \frac{ad + bc}{bd} \\ \text{Adding: } \frac{a}{b} + \frac{c}{d} &= \frac{ad + bc}{bd} \end{aligned}$$

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

Using one of each factor, the LCM is $2(x + 3)(x - 5)$.

$$\begin{aligned} \frac{a}{b} - \frac{c}{d} &= \frac{ad - bc}{bd} \\ \text{Subtracting: } \frac{a}{b} - \frac{c}{d} &= \frac{ad - bc}{bd} \\ &= \frac{a}{b} - \frac{c}{d} \end{aligned}$$

Using one of each factor, the LCM is $2(x + 3)(x - 5)$.

$$\begin{aligned} \frac{a}{b} - \frac{c}{d} &= \frac{ad - bc}{bd} \\ \text{Subtracting: } \frac{a}{b} - \frac{c}{d} &= \frac{ad - bc}{bd} \\ &= \frac{a}{b} - \frac{c}{d} \end{aligned}$$

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

$$\begin{aligned} \frac{a}{b} - \frac{c}{d} &= \frac{ad - bc}{bd} \\ &= \frac{a}{b} - \frac{c}{d} \end{aligned}$$

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Dale W Johnson,Kerry J King

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