

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 sunge.
- 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 oquations: slope-intercept, point-slope, and standard form.
- · Slope intercept forms y an + h, where is the slope and h is the y-intercept of the bine.
- EX: If a line has a slope of 1 and y-intercept of 2, the equation is y = 3x + 3.
- Point-slope form: $y y_1 = -(x x, y_1)$, where is the slope and (x_1, y_2) is a point on the line.
- EX: If a line has a slope of -2 and contains the point (%, -4), the equation is
- y (-4) = 2(x 6) or y + 4 = 2(x 6). Standard forms: dx + 8y = C, where A, B, and C are integers and A is positive. The slope is $-\frac{\pi}{2}$ and the y-intercept is $\frac{\pi}{2}$. This firms 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 Is + 2y = 4, the slope is | and the y-intercept is 2. The intercepts can also be found by substitution:
- to-intercept tipling in 0 for yet-
- 3x + 2y 4 3x + 2000 4 3x 4 x 5p-intercept (plug in 0 for x):
- 3x + 2y 4 300y + 2y 4 2y 4 y 2

Polynomial Functions

- A function is a polynomial function if it can be written in the form $f(x) = ax^{n} + bx^{-1} + cx^{-1} \dots + dx + c$
- . 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 + bt.
- $EXt_1(x) = 2x^x + 3x^4 x + 4$ has a degree of X, one real zero at x = -2.1601, and two mon-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 = #
- * The pointeneout is a:
- Quadratic functions can be written in vertex form, f(x) = a(x h)^x + k, where O_{i} , its in the vertex of a parabola that opens up when $\omega > 0$ and opens down
- Quadratic functions can have more, 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.

Equation	Method	Partition	Solution
p* - 0 - 0	Square Roots	There is no x-term.	x* - 9 - 0 x* - 9 x - 3 or -3
a* + 2x - K = 0	Factoring	If has only a few factors to check.	$x^4 = 2x - 8 = 0$ 6x = 4x6x - 23 = 0 x = -4 or 2
$2x^2 = 5x - 9 = 0$	Quadratic Formula = -0.1 \(\sqrt{0}^2 - 4.0c \) 2 \(\sqrt{0}^2 - 4.0c \)	The equation cannot be factored.	$x = \frac{-5.1 \sqrt{1-50^2 - 4(2\pi) - 6}}{5(2\pi)}$ $x = \frac{-5.2 \sqrt{97}}{4}$
a* - 8a + 3 - 0	Completing the Square or Quadratic Formula	The coefficient of the statem is 1 but the equation cannot be factored.	$a^{2} - 8a + 3 - 0$ $a^{2} - 8a + 3 - 0 - 3 + \dots$ $a^{2} - 8a + 163 - 16$ $a^{2} - 8a + 16 - 13$ $(a - 4)^{2} - 13 - 3$ $a - 4 - 3\sqrt{13}$ $a = 4 - 3\sqrt{13}$

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 text. 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 expresented by an equation in terms of a and y or with function momentum: y = Tx - 11 or f(x) = Tx - 11.

Discriminant: $h^* - h_{AC} > 0$

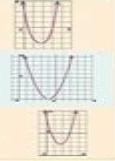
- $\mathbf{E}[\mathbf{X}_{0}] = \mathbf{R}_{0} + \mathbf{R}_{1} + \mathbf{R}_{2} = \mathbf{R}_{1}$
- The discriminant is $(-7)^2 4(2)(3) = 25$, which is positive
- There are two real number solutions.

Discriminant: $h^2 - 4\omega_0 = 0$

- EXc p' Be 56 0
- The discriminant is $(-8)^2 4(1)(16) = 0$.
- There is one real number solution.

Discriminants & - Asy = 0

- $EX_1 | 2w' 2w w w$
- The discriminant is (-7y' 4(2)(8) = -15, which is negative.
- There my no real number solutions.



Rational Functions

A radional function is an equation of the form $J(x)=\frac{p(x)}{p(x)}$, 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 occia where there is a common factor in the numerator and denominator. To divide: Multiply by the multiplicative To multiply: First multiply the numerators, inverse investmental) of the distance.

Sugar

Form Time

The common denominator is the LCM

All Contine in 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.

Adding:
$$\frac{\frac{5}{x^2 - x - 20} \cdot \frac{7}{2x - 10}}{\frac{7}{2x - 10}} = \frac{3}{2x - 10}$$

Desail common multiplie) of the decominators.

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

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

$$= \frac{9}{(x+4)(x-5)} \cdot \frac{2}{2} \cdot \frac{7}{2(x-5) \cdot (x+4)}$$

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

$$= \frac{7x+38}{2(x-5)(x+4)}$$



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

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

Using one of each factor, the LCM is 6h - 25(h + 55(h - 4). Multiply each fraction's numerator and denominator by the factors missing from the LCM.

And Seed Seed (8 + 5g h - 2s h - 4 | 64 - 456h - 5r h - 2 A² - 80 + 10. 100 miles (h - 5 g h - 2 g h - 4) (h - 4 g h - 5 g h - 2) -0.00 m 200 * (h + 54 h - 24 h - 4)

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Alan Axelrod, Walton Rawls, Harry Oster, James Holtje

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