

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 forms: y = mx + h, where m is the slope and h is the y-intercept of Oher Birme.
- EX; If a line has a slope of 3 and y-intercept of 3, the equation is y = 3x + 3.
- Point-slope forms y − y₁ = m(x − x,), where = is the slope and (x₁, y₂) 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 form: Ax + By = C, where A, B, and C are integers and A is positive. The slope is $-\frac{a}{2}$ and the y-intercept is $\frac{a}{2}$. This form 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 3x + 2y = 4, the slope is $-\frac{1}{2}$ and the y-intercept is 2. The intercepts can also be found by substitution: x-innercept (plug in 0 for y):
- 3x + 2y = 4 3x + 2(0) = 4 3x = 4 x = 5
- p-intercept (plug in 0 for x): No: - 2y - 4 3(0) - 2y - 4 2y - 4 y - 2

Polynomial Functions

- A function is a polynomial function if it can be written in the form $f(x) = ax^{n} + bx^{n-1} + cx^{n-1} + ax + e$
- 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 + hr.
- $EX_1(x) = 2x^2 + 3x^2 x + 4$ has a degree of 3, one real zero at x = -2.1601, and two non-real resets.

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 = ¹²
- The y-intercept is c.
- Quadratic functions can be written in vertex form, $f(x) = a(x h)^{r} + k$, where (A. It) is the vertex of a parabola that opens up when a > 0 and opens down sufficiency of 45 Oc.
- Quadratic functions can have mone, one, or two real-member solutions.
- The graph is a porabola 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.

Markade for Challes Cont.

Equation	Method	Justification	Sobution
-9-0	Square Ravets	There is no r-tome.	x ² - 9 - 0 x ² - 9 x - 3 or -3
vf. + 2x - 8 - 0	Factoring	N has easily a few finators to shock.	$x^{1} + 2x - 8 = 0$ 4x + 4y(x - 2y = 0) x = -4 or 2
2x* + 5x - 9 = 0	Quadratic Formula	The equation cannot be factored.	$x = \frac{-5 \pm \sqrt{(-5)^2 - 4(20) - 9}}{3(2)}$ $x = \frac{-5 \pm \sqrt{97}}{4}$
n' - 8x +3 -0	Completing the Square or Quadratic Formula	The coefficient of the x*-term is 1 but the equation cannot be factored.	$x^{\mu} - 8x + 3 = 0$ $x^{\mu} - 8x + 3 +$ $x^{\mu} - 8x + 16 = .3 + 16$ $x^{\mu} - 8x + 16 = 13$ $4x - 4y^{\mu} = 18$ $x - 4 = 2x\sqrt{1.3}$

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 fu-
- · A function can be represented by an equation in terms of a and y or with function notation: y = Tx - 11 or f(x) = Tx - 11.

Discriminant: N - Aut > 0

- March Street ... They say the sec the
- The discriminant is $(-7)^2 4(2)(3) 25$, which is positive.
- There are two real number solutions.



- $EX_{2} x^{2} 8x + 16 = 0$
- The discriminant is (-80' 4019/165 = 0)
- There is one real number solution.



- $EX_{i}: 2x^{i} 2x = 8 = 0$
- The discriminant is (-7y' 4(2)(3) = -15, which is negative.
- There are no real number solutions.

Rational Functions

A rational function is an equation of the form $f(x) = \frac{\rho(x)}{q(x)}$, where $\rho(x)$ 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. To divide: Multiply by the multiplicative then the denominators. inverse (reciprocal) of the divisor.



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.

s'-s-20 2s-10 Addings

5 $me = mme - S_0 - 2(n - S)$

The common denominator is the LCM femal common multiplet of the denominators.

Using one of each factor, the LCM is 20x = 40cx - 5).

- Multiply each fraction's numerator and denominator by the factors missing from the LCM.
- 5 2 7 (x+4) (x + 4)(x - 5) 2 2(x - 5) (x + 4) 100 20 - 28 20x+40x-20 20x-50x+40 2 to 4 300 20x - 500x + 41
- Subtracting: $\frac{h-4}{h^2+3h-10}$ $\frac{h+2}{h^2+h-20}$ Street St. 800.2 68 + 5868 - 29 48 - 4008 + 59

Using one of each factor, the LCM is 6h - 236h + 596h - 41.Multiply each fraction's numerator and denominator by the factors missing from the LCM.

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



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Suzanne Kelton

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