

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 + 200y = 4 3x = 4 x = 8p-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-number 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	Sobstion
-9-0	Square Ravets	There is no x-toms.	x ² - 9 - 0 x ² - 9 x - 3 or -3
vi + 2x - 8 - 0	Factoring	8 has only a few factors to check.	$x^{2} + 2x - 8 = 0$ 4x + 40(x - 2) = 0 x = -4 or 2
2e* - 5e - 9 - 0	Quadratic Formula -0.1 √0′ -4m; 2σ	The equation cannot be factored.	$x = \frac{-5 \pm \sqrt{9 - 50^2 - 40200 - 9}}{3029}$ $x = \frac{-5 \pm \sqrt{97}}{4}$
nº - 8x +3 = 0	Completing the Square or Quadratic Formula	The coefficient of the x*-term is 1 but the equation cannot be factored.	$x^{0} - 8x + 3 = 0$ $x^{0} - 8x + -3 = -3$ $x^{0} - 8x + 16 = -3 = 16$ $x^{0} - 8x + 16 = 13$ (x - 4y = 13) $x - 4 = 3x\sqrt{13}$

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 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

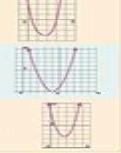
- March Street ... The said to the
- The discriminant is $(-7)^2 4(2)(3) 25$, which is positive.
- There are two real number solutions.



- $EX(14^2 8a + 16 0)$
- The discriminant is (-80' 4019/165 = 0)
- There is one real number solution.



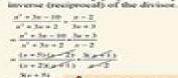
- $EX_{i}: 2x^{i} 2x = 8 = 0$
- The discriminant is (-7y' 4(2)(3) = -15, which is negative.
- There are no real number solutions.



Potional 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



A Contact is important for division. ds = 20To 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.

The common denominator is the LCM

femal common multiplet of the denominators.

s'-s-20 2s-10 . Adding: $me = mme - S_0 - 2(n - S)$

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) 340 20 - 28 20x+40x-20 20x-50x+40 2 to 4 300 20x - 500x + 41



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.





Pre Calculus Sixth Edition Answers

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Table of Contents Pre Calculus Sixth Edition Answers

- 1. Understanding the eBook Pre Calculus Sixth Edition Answers
 - The Rise of Digital Reading Pre Calculus Sixth Edition Answers
 - Advantages of eBooks Over Traditional Books
- 2. Identifying Pre Calculus Sixth Edition Answers
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Pre Calculus Sixth Edition Answers
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from Pre Calculus Sixth Edition Answers
 - Personalized Recommendations
 - Pre Calculus Sixth Edition Answers User Reviews and Ratings
 - Pre Calculus Sixth Edition Answers and Bestseller Lists
- 5. Accessing Pre Calculus Sixth Edition Answers Free and Paid eBooks
 - Pre Calculus Sixth Edition Answers Public Domain eBooks
 - Pre Calculus Sixth Edition Answers eBook Subscription Services
 - Pre Calculus Sixth Edition Answers Budget-Friendly Options

- 6. Navigating Pre Calculus Sixth Edition Answers eBook Formats
 - o ePub, PDF, MOBI, and More
 - Pre Calculus Sixth Edition Answers Compatibility with Devices
 - Pre Calculus Sixth Edition Answers Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - o Adjustable Fonts and Text Sizes of Pre Calculus Sixth Edition Answers
 - Highlighting and Note-Taking Pre Calculus Sixth Edition Answers
 - Interactive Elements Pre Calculus Sixth Edition Answers
- 8. Staying Engaged with Pre Calculus Sixth Edition Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Pre Calculus Sixth Edition Answers
- 9. Balancing eBooks and Physical Books Pre Calculus Sixth Edition Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Pre Calculus Sixth Edition Answers
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Pre Calculus Sixth Edition Answers
 - Setting Reading Goals Pre Calculus Sixth Edition Answers
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Pre Calculus Sixth Edition Answers
 - Fact-Checking eBook Content of Pre Calculus Sixth Edition Answers
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements

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