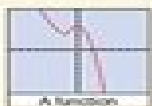
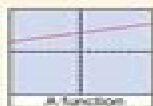
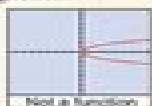
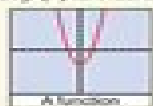


# Pre-Calculus

## Functions

A **function** is a relation in which each element of the domain (independent variable) is paired with only one element of the range (dependent variable). In many cases  $x$  is the independent variable and  $y$  or  $f(x)$  is the dependent variable. In this guide  $y$  and  $f(x)$  are interchangeable.



A relation can be tested to see whether it is a function by the vertical line test. Draw a vertical line through any graph, and if it hits an  $x$ -value more than once, it is not a function.

### Linear Functions

A function is a linear function if it can be written in the form  $f(x) = mx + b$  or  $y = mx + b$  where  $m$  is the slope and  $b$  is the  $y$ -intercept.

EX:  $f(x) = 4x - 1$  is a linear function. The slope is  $\frac{4}{1}$  (rise over run), and the  $y$ -intercept is  $-1$ .

The standard form of a linear function is  $0 = Ax + By + C$ . The slope is  $m = -\frac{A}{B}$ , and the  $y$ -intercept is  $-\frac{C}{B}$ .

The zeros of a function are found by setting  $y$  to 0 and solving for  $x$ .

EX: Find the zeros of  $f(x) = 4x - 1$ .

$$0 = 4x - 1 \quad -1 = 4x \quad -\frac{1}{4} = x$$

### 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 an odd integer, there is at least one real zero.

When the degree is an even integer, there may be no real zeros.

Both types can have imaginary roots of the form  $a + bi$ .

EX:  $f(x) = 2x^4 + x^3 + x + 10$  has a degree of 4. There are four roots to this polynomial.

EX:  $f(x) = 2x^3 + x^2 - 2x + 3$  has a degree of 3. This function has one real zero at  $x = -1.17$  and two non-real roots. (see graph)

EX:  $f(x) = x^2 + 1$  has a degree of 2. This function has two non-real roots. Its graph does not cross the  $x$ -axis.



### Quadratic Functions

One commonly studied polynomial function is a quadratic function.

A quadratic function takes the form  $f(x) = ax^2 + bx + c$ .

The graph of a quadratic equation is a **parabola**.

Some parabolas represent quadratic equations but not quadratic functions. (see graph)

Quadratic equations can have zero, one, or two solutions.

The vertex of a parabola is its **critical point**. This is where the graph changes from increasing to decreasing or from decreasing to increasing.

The quadratic formula  $x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$  can be used to find the roots of all quadratic equations.

The value under the square root symbol is the **discriminant**. It tells the type of roots of a quadratic equation.

$b^2 - 4ac > 0$ , two distinct real roots

$b^2 - 4ac = 0$ , exactly one real root

$b^2 - 4ac < 0$ , no real roots (two distinct imaginary roots)

EX: Find the roots of  $f(x) = x^2 - 4x + 1$

The discriminant  $b^2 - 4ac$  is  $(-4)^2 - 4(1)(1) > 0$ , so there are two real roots.

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a} = \frac{-(-4) \pm \sqrt{4^2 - 4(1)(1)}}{2(1)}$$

$$x = 3.732 \text{ and } x = 0.267$$

EX: Find the number and type of the roots of  $f(x) = 2x^2 + 2x + 1$

The discriminant is less than 0, so there are two imaginary roots. A graph of this function does not cross the  $x$ -axis.



EX: Find the number and type of the roots of  $f(x) = x^2 + 2x + 1$ . The discriminant is 0, so there is one real root. A graph of this function intersects the  $x$ -axis in one place, at  $-1$ .

### Rational Functions

A function is a rational function if it can be written in the form  $f(x) = \frac{g(x)}{h(x)}$

EX:  $f(x) = \frac{x}{x+3}$ ,  $f(x) = \frac{2}{x}$ , and  $f(x) = \frac{1}{x-2} + 3$  are rational functions.

The parent function for all rational functions is  $f(x) = \frac{1}{x}$ .

The graph of the parent rational function consists of two parts, one in quadrant I and one in quadrant III.

The branches of rational functions approach asymptotes.



### Operations of Functions

**Sum:**  $(f + g)(x) = f(x) + g(x)$

**Difference:**  $(f - g)(x) = f(x) - g(x)$

**Product:**  $(f \cdot g)(x) = f(x) \cdot g(x)$

**Quotient:**  $\left(\frac{f}{g}\right)(x) = \frac{f(x)}{g(x)}$ ,  $g(x) \neq 0$

EX: Given  $f(x) = x + 2$  and  $g(x) = \frac{x}{x-4}$

Find the difference:  $(f - g)(x) = x + 2 - \frac{x}{x-4} = \frac{(x+2)(x-4) - x}{x-4} = \frac{x^2 - 3x - 8}{x-4}$ ,  $x \neq 4$

Find the product:  $(f \cdot g)(x) = (x + 2) \cdot \left(\frac{x}{x-4}\right) = \frac{x^2 + 2x}{x-4}$ ,  $x \neq 4$

Find the quotient:  $\left(\frac{f}{g}\right)(x) = \frac{x+2}{\frac{x}{x-4}} = (x+2) \cdot \left(\frac{x-4}{x}\right) = \frac{x^2 - 2x - 8}{x}$ ,  $x \neq 0$

### Composition of Functions

**$(f \circ g)(x) = f(g(x))$**

EX: Given  $f(x) = x + 2$  and  $g(x) = \frac{x}{x-4}$ , find  $(f \circ g)(x)$

$x + 2$  becomes  $\left(\frac{x}{x-4}\right) + 2 = \frac{x}{x-4} + \frac{2(x-4)}{x-4} = \frac{x + 2x - 8}{x-4} = \frac{3x - 8}{x-4}$ ,  $x \neq 4$

EX: Using the same functions, find  $(g \circ f)(x)$ .  $\left(\frac{x}{x-4}\right)$  becomes  $\frac{\frac{x+2}{x+2-4}}{\frac{x+2}{x+2-4}} = \frac{x+2}{x-2}$ ,  $x \neq 2$

### Inverse Functions

To find the inverse of a function, interchange  $x$  and  $y$  and solve the equation for  $y$ .

EX: Find the inverse of  $y = 5x - 2$

Interchange  $x$  and  $y$ :  $x = 5y - 2$

$$x + 2 = 5y \quad \frac{x+2}{5} = y$$

To show two functions are inverses, show that  $(f \circ g)(x) = x$  and  $(g \circ f)(x) = x$

EX: Given  $f(x) = 2x - 4$ ,  $g(x) = \frac{x+4}{2}$ ,  $(f \circ g)(x) = \frac{2(x+4)}{2} - 4 = x$ , and

$$(g \circ f)(x) = \frac{(2x-4)+4}{2} = x$$

### Families of Functions

A **parent graph** is the basic graph in a family. All the other family members translate, rotate, reflect, shrink, or stretch based on changes in values.

For a general quadratic function,  $f(x) = a(x + h)^2 + c$ , the following rules show how the function is transformed.

When  $a$  is negative, the graph reflects across the  $x$ -axis.

When  $a$  is between 0 and 1, the graph shrinks or compresses.

When  $a$  is greater than 1, the graph expands.

When  $h$  is positive, the graph translates to the left.

When  $h$  is negative, the graph translates to the right.

When  $c$  is positive, the graph translates up.

When  $c$  is negative, the graph translates down.

Note: The parent function (in this case quadratic) could also be an absolute value function, a rational function, an exponential function, etc.

# E2020 Pre Calc Answers

**Rhonda Huettenmueller**

A red circular graphic with a gradient, appearing as a stylized arrow or a partial circle, located to the right of the author's name.

## **E2020 Pre Calc Answers:**

*Pre-Calculus* Ken Yablonsky, 2015-12-31 Each step higher in math studies is crucial to doing well at the next level Pre Calc is the gateway to higher level mathematics of which the best degrees and careers are built upon The core essentials in 6 laminated pages can be used along with your text and lectures as a review before testing or as a memory companion that keeps key answers always at your fingertips The most answers for your money in what students have said is a must have study tool Suggested uses o Quick Reference instead of digging into the textbook to find a core answer you need while studying use the guide to reinforce quickly and repeatedly o Memory refreshing your memory repeatedly is a foundation of studying have the core answers handy so you can focus on understanding the concepts o Test Prep no student should be cramming but if you are there is no better tool for that final review **Pre-calculus**, 2015 **Pre-Calculus Equations**

**and Answers** Expolog, LLC, Ken Yablonski, 2018-11 Each step higher in math studies is crucial to doing well at the next level Support for this gateway course to Calculus is needed among most people heading through that gate to successful careers in science engineering computers and economics Our math authors at ExpoLog who also write math textbooks take great care to cover the core of what students need to know to succeed Expertly authored and designed this powerful and amazingly affordable 6 page laminated guide offers clear and concise examples explanations and the graphs that go with them QuickStudy math guides have helped many students push through a difficult course and have helped others shine even brighter Great for exam reviews regular weekly study or reference in class 6 page laminated guide includes Functions Their Graphs Linear Functions Polynomial Functions Quadratic Functions Rational Functions Exponential Functions Logarithmic Functions Inverse Functions Parent Functions Transformations of Functions Trigonometry Right Triangle Trigonometry Degrees Radians Trigonometric Functions the Unit Circle Graphs of Trigonometric Functions Vectors Parametric Equations Polar Coordinates Complex Numbers Conic Sections Introduction to Calculus Limit of a Function Derivatives

**Pre-Calculus Demystified** Rhonda Huettenmueller, 2005-02-04 Pre Calculus Demystified leads the reader through all the intricacies and requirements of this essential course Whether you need to pass a class a college requirement or get a leg up on more advanced topics this book provides clear explanation with a wealth of questions answers and practical examples Packed with practical examples graphs and Q As this complete self teaching guide from the best selling author of Algebra Demystified covers all the essential topics including absolute value nonlinear inequalities functions and their graphs inverses proportion and ratio and much more **Pre-Calculus Problems with Worked Solutions** Quantum Scientific

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McGraw-Hill's 500 College Precalculus Questions: Ace Your College Exams Sandra McCune, William H. Clark, 2012-12-21 Sharpen your skills and prepare for your precalculus exam with a wealth of essential facts in a quick and easy Q A format Get the question and answer practice you need with McGraw Hill's 500 College Precalculus Questions Organized for easy reference and intensive practice the questions cover all essential precalculus topics and include detailed answer explanations The 500 practice questions are similar to course exam questions so you will know what to expect on test day Each question includes a fully detailed answer that puts the subject in context This additional practice helps you build your knowledge strengthen test taking skills and build confidence From ethical theory to epistemology this book covers the key topics in precalculus Prepare for exam day with 500 essential precalculus questions and answers organized by subject Detailed answers that provide important context for studying Content that follows the current college 101 course curriculum

Precalculus, Student Solutions Manual Cynthia Y. Young, 2010-02-15 Engineers looking for an accessible approach to calculus will appreciate Young's introduction The book offers a clear writing style that helps reduce any math anxiety they may have while developing their problem solving skills It incorporates Parallel Words and Math boxes that provide detailed annotations which follow a multi modal approach Your Turn exercises reinforce concepts by allowing them to see the connection between the exercises and examples A five step problem solving method is also used to help engineers gain a stronger understanding of word problems **Pre-Calculus and SAT Lecture Notes Vol. 1** Rita Korsunsky, 2015-01-24 Imagine having interactive Powerpoint lectures that illustrate every problem walking you through the procedure step by step Imagine having every proof illustration or theorem explained concisely and accurately Well with Pre Calculus and SAT Interactive Lectures Vol 1 you can Why is this paperback so convenient This book contains printouts of 47 Powerpoint presentations on topics covered by the first half of Pre Calculus and SAT courses You can take notes on this book study from it and use it as test preparation material for chapter tests as well as for the SAT test These lecture notes can be used for both review and learning and are a perfect fit for every student no matter their current knowledge of Pre Calculus Before you

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