

Welcome to Precalculus Key Words

Introduction to Precalculus Lesson

calculus – the branch of mathematics that develops a systemic approach to problem-solving through differentiation and integration of single and multivariate functions

precalculus – the branch of mathematics that synthesizes those analytic geometry and algebra topics that provide foundational information for the problem-solving strategies studied in calculus

Algebraic Expressions and Equations Lesson

algebraic expression – a mathematical phrase that contains one or more variables

algebraic equation – a statement that two algebraic expressions are equal or that an algebraic expression is equal to a constant

order of operations – the convention that specifies the order in which operations in an expression should be performed

solution – a value that makes an equation true

Relations and Functions Lesson

domain – the set of all possible input values for a relation

function – a relation in which each input value is paired with exactly one output value

range – the set of all possible output values for a relation

relation – a set of pairs of input and output values

The Complex Number System Lesson

absolute value of a complex number – the distance from the origin to the graph of the given complex number

complex number – a number of the form $a+bi$, where a and b are real numbers, and i is the imaginary unit

complex plane – a coordinate plane consisting of a real axis and an imaginary axis, used for graphing complex numbers

conjugate of a complex number – the number which has the same real part and opposite imaginary part of the given complex number

imaginary numbers – the set of numbers whose value includes the imaginary unit

imaginary unit, i – the number whose square is -1

pure imaginary number – a complex number whose real part is zero

real numbers – the set of numbers consisting of all rational and irrational number

Operations with Complex Numbers Lesson

closed set – a set of numbers for which the result of an operation on elements of the set is another element of the set