List of Pre Calculus Worksheets

Functions

- [Continuity](#)
- [Extrema, intervals of increase and decrease](#)
- [Power functions](#)
- [Average rates of change](#)
- [Transformations of graphs](#)
- [Piecewise functions](#)
- [Operations](#)
- [Inverses](#)

Power, Polynomial, and Rational Functions

- [Graphs, real zeros, and end behavior](#)
- [Dividing polynomial functions](#)
- [The Remainder Theorem and bounds of real zeros](#)
- [Writing polynomial functions and conjugate roots](#)
- [Complex zeros & Fundamental Theorem of Algebra](#)
- [Graphs of rational functions](#)
- [Rational equations](#)
- [Polynomial inequalities](#)
- [Rational inequalities](#)

Exponential and Logarithmic Expressions

- [Graphing exponential functions](#)
- [Exponential equations not requiring logarithms](#)
- [Exponents and logarithms](#)
- [Evaluating logarithms](#)
- [Logarithms and exponents as inverses](#)
- [Properties of logarithms](#)
- [Writing logs in terms of others](#)
- [Exponential equations requiring logarithms](#)
- [Logarithmic equations, simple](#)
- [Logarithmic equations, hard](#)
- [Graphing logarithmic functions](#)

List of Pre Calculus Worksheets

- [Compound interest](#)

Trigonometry

- [Angles and angle measure](#)
- [Right triangle trigonometry](#)
- [Trig functions of any angle](#)
- [Graphing trig functions](#)
- [Simple trig equations](#)
- [Inverse trig functions](#)
- [Fundamental identities](#)
- [Equations with factoring and fundamental identities](#)
- [Sum and Difference Identities](#)
- [Multiple-Angle Identities](#)
- [Product-to-Sum Identities](#)
- [Equations and Multiple-Angle Identities](#)
- [The Law of Sines](#)
- [The Law of Cosines](#)

Parametric Equations

- [Parametric equations](#)
- [Projectile motion](#)

Polar Coordinates

- [Polar coordinates](#)
- [Graphs of polar equations](#)
- [Polar and rectangular forms of equations](#)
- [Polar forms of conic section](#)
- [Complex numbers and polar form](#)

Vectors

- [Vector basics](#)
- [Vector operations](#)
- [Dot products](#)

List of Pre Calculus Worksheets

Three-Dimensional Vectors

- [3D vector basics](#)
- [3D vector operations](#)
- [Vector cross products](#)

Matrices and Systems

- [Matrix operations](#)
- [Matrix inverses and determinants](#)
- [Matrix equations](#)
- [Cramer's Rule](#)
- [Multivariable linear systems and row operations](#)
- [Partial fraction decomposition](#)

Conic Sections

- [Parabolas](#)
- [Circles](#)
- [Ellipses](#)
- [Hyperbolas](#)
- [Rotations of conic sections](#)

Discrete Mathematics

- [Sample spaces & Fundamental Counting Principle](#)
- [Permutations](#)
- [Combinations](#)
- [Permutations vs combinations](#)
- [The Binomial Theorem](#)
- [Mathematical induction](#)

Probability

- [Independent and dependent events](#)
- [Mutually exclusive events](#)
- [Probability with combinatorics](#)

List of Pre Calculus Worksheets

- [Probability with combinatorics - binomial](#)

Sequences and Series

- [General sequences and series](#)
- [Arithmetic sequences and series](#)
- [Geometric sequences and series](#)
- [Power series](#)

Introduction to Calculus

- [Limits by direct evaluation](#)
- [Limits at kinks and jumps](#)
- [Limits at removable discontinuities](#)
- [Limits at essential discontinuities](#)
- [Limits at infinity](#)
- [Definition of the derivative](#)
- [Instantaneous rates of change](#)
- [Power rule for differentiation](#)
- [Motion along a line](#)
- [Approximating area under a curve](#)
- [Area under a curve by limit of sums](#)
- [Indefinite integrals](#)