

Pre-Calculus Lessons

Live 1:1 Sessions

Algebraic Concepts

- Polynomials: Types, addition, subtraction, multiplication, and division
- Equations and Inequalities: Linear, quadratic, exponential, logarithmic, and trigonometric
- Functions: Domain, range, even/odd functions, operations, and inverse functions

Trigonometry

- Trigonometric Ratios: Sine, cosine, and tangent
- Unit Circle: Introduction and applications
- Inverse Trigonometric Functions: Graphs and equations
- Trigonometric Identities: Angle addition and subtraction formulas

Functions and Graphs

- Elementary Functions: Linear, quadratic, polynomial, rational, exponential, and logarithmic
- Graphing Techniques: Intercepts, symmetry, asymptotes, shifts, stretches, and reflections
- Conic Sections: Circles, parabolas, ellipses, and hyperbolas

Matrices and Vectors

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- Matrix Operations: Addition, subtraction, multiplication, and row operations
 - Determinants and Inverses: Finding determinants and inverses of matrices
 - Vector Operations: Addition, subtraction, and scalar multiplication
 - Applications of Vectors: Solving problems in physics and engineering

Sequences and Series

- Arithmetic and Geometric Sequences: Formulas and applications
- Series: Summation notation and formulas
- Probability and Combinatorics: Basic concepts and applications

Complex Numbers

- Imaginary Numbers: Introduction and operations
- Complex Plane: Graphing complex numbers
- Polar Form: Converting between rectangular and polar forms

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