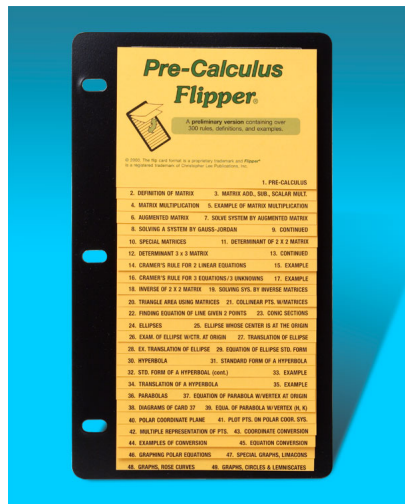


## Pre-Calculus



Pre-Calculus Flipper®-Topics - CLP-185W Matrix, linear equations, ellipses, hyperbolas, parabolas, polar coordinate planes, equation conversion, rose curves. Grades 10–College.

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### Description

Matrix, linear equations, ellipses, hyperbolas, parabolas, polar coordinate planes, equation conversion, rose curves. Grades 10–College.

## Pre-Calculus Flipper®-Topics - CLP-185W

- Definition of Matrix
- Matrix: Order
- Matrix: Addition
- Matrix: Subtraction
- Matrix: Scalar Multiplication
- Matrix: Multiplication
- Augmented Matrix for a System of Equations
- Solving Systems by Augmented Matrices
- Solving Systems by Augmented Matrices: Elementary Row Operations
- Solving a System by the Gauss-Jordan Elimination

- Translation of an Ellipse: Center
- Translation of an Ellipse: Vertices
- Translation of an Ellipse: Other Endpoints
- Translation of an Ellipse: Foci
- Writing an Equation of an Ellipse in Standard Form (Complete the Square)
- Hyperbola
- Standard Form of a Hyperbola
- Example of Hyperbola Centered at the Origin
- Translation of a Hyperbola: Center
- Translation of a Hyperbola: Vertices
- Translation of a Hyperbola: Other Points
- Translation of a Hyperbola: Foci
- Translation of a Hyperbola: Asymptotes
- Translation of a Hyperbola: Graph
- Parabola
- Parabolas: Directrix
- Parabolas: Focus
- Parabolas: Midpoint
- Parabolas: Vertex
- Parabolas: Axis
- Equation of a Parabola with Vertex at the Origin
- Equation of a Parabola with Vertex (h, k)
- Polar Coordinate Plane
- Polar Coordinate Plane: Pole
- Polar Coordinate Plane: Polar Axis
- Plotting Points on the Polar Coordinate System
- Multiple Representation of Points
- Multiple Representation of Points: Reversing the Directed Distance
- Multiple Representation of Points: Reversing the Directed Angle
- Coordinate Conversion
- Coordinate Conversion: Polar Coordinate to Rectangular Coordinate

- Equal Matrices
- Zero Matrix
- Square Matrix
- Identity Matrix for Multiplication
- Determinant of a  $2 \times 2$  Matrix
- Determinant of a  $3 \times 3$  Matrix: Expansion by Minors
- Determinant of a  $3 \times 3$  by Diagonal Multiplication
- Cramer's Rule for Solving Two Linear Equations
- Cramer's Rule for 3 Equations in 3 Unknowns
- Inverse of a  $2 \times 2$  Matrix
- Solving a System of Equations by Inverse Matrices
- Area of a Triangle Using Matrices
- Test for Collinear Points Using Matrices
- Finding Equation of a Line Given Two Points
- Conic Sections: Circle
- Conic Sections: Ellipse
- Conic Sections: Parabola
- Conic Sections: Hyperbola
- Ellipses
- Ellipse Whose Center is at the Origin