

AP Precalculus

Strengthen your skills from Alg 2 or Alg 2/Trig and prepare for AP Calculus AB or BC!

What do you do in AP Precalculus?

- **Model Real-World Data:**
Apply mathematical tools to examine scenarios, conditions, and data sets and determine and validate an appropriate function model.
- **Harness a Dynamic World:**
Build functions that embody how things change – how values of one variable simultaneously change as the values in another variable change.
- **Master Symbolic Manipulation:**
Develop rigorous symbolic manipulation skills needed for future mathematics courses
- **Explore Multiple Representations:**
Examine functions through multiple representations – graphically, numerically, verbally, and analytically.

AP Precalculus Topics

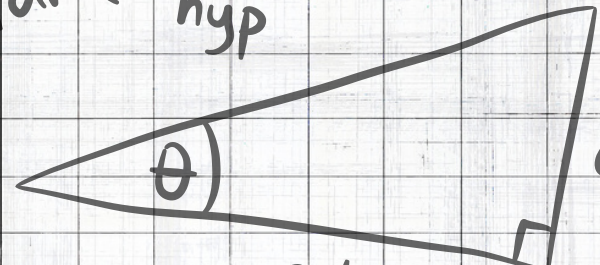
Unit 1: Linear, Quadratic, Polynomial, and Rational Functions

Unit 2: Exponential and Logarithmic Functions

Unit 3: Trigonometric and Polar Functions

Unit 4: Functions Involving Parameters, Vectors, and Matrices

$$\tan(\theta) = \frac{\text{opp}}{\text{adj}}$$



$$ax^2 + bx + c = 0$$

$$-b \pm \sqrt{b^2 - 4ac}$$

$$\sqrt{\quad} = s^3$$