

AP Precalculus 2024-2025 Summer Assignment

Students will join the AP Precalculus 2024-2025 Summer Assignment class in Khan Academy and complete the assigned exercise sets, quizzes and/or unit tests. Students should earn a 75% or above on each set of exercises to earn full credit for the summer assignment.

To join the course students should use this link:

<https://www.khanacademy.org/join/FBBAWMRK>, and log in with their existing Khan Academy account (or create a new one).

All exercises should be completed by Sunday August 14th, 2023.

The exercises for the assignment were chosen to review the prerequisites suggested by the College Board in their AP Precalculus Course and Exam Description (screenshot below).

Prerequisites

Before studying precalculus, all students should develop proficiency in topics typically found in the Algebra 1-Geometry-Algebra 2 (AGA) content sequence. Students should have developed the following:

- Proficiency with the skills and concepts related to linear and quadratic functions, including algebraic manipulation, solving equations, and solving inequalities
- Proficiency in manipulating algebraic expressions related to polynomial functions, including polynomial addition and multiplication, factoring quadratic trinomials, and using the quadratic formula
- Proficiency in solving right triangle problems involving trigonometry
- Proficiency in solving systems of equations in two and three variables
- Familiarity with piecewise-defined functions
- Familiarity with exponential functions and rules for exponents
- Familiarity with radicals (e.g., square roots, cube roots)
- Familiarity with complex numbers
- Familiarity with communicating and reasoning among graphical, numerical, analytical, and verbal representations of functions