

Trinity Catholic High School

Advanced Placement Summer Work



AP Precalculus

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Mrs. Danielle Alotta

dalotta@tchs.us

Dear Future AP Precalculus Student,

As you begin AP Precalculus, there are certain prerequisite skills that must be mastered and will be essential to your success. AP Precalculus is fast paced and rigorous; this summer assignment will give you a refresher on the essential prerequisite topics you will need.

The AP Precalculus Summer Assignment will consist of two parts: **(1)** a set of review videos to watch and exercises to complete over summer and **(2)** a test on those prerequisite skills upon returning to school in the fall.

Part 1: Prerequisite Videos and Exercises - DUE 8-12-25

There are 12 prerequisite videos with corresponding exercises to complete for each linked below. You may complete these on paper, or digitally using a note-taking app.

All work must be shown in the student's own handwriting to receive credit.

AP[®] Precalculus: 13 Prerequisite Skills (#9 removed)

[#1: Linear Functions \(algebraic manipulation\)](#)

[Practice Problems](#)

[#2: Solving Equations and Inequalities](#)

[Practice Problems](#)

[#3: Polynomial Addition and Multiplication](#)

[Practice Problems](#)

[#4: Polynomials: Factoring Quadratic Trinomials](#)

[Practice Problems](#)

[#5 Quadratic Functions \(solving\)](#)

[Practice Problems](#)

[#6 Quadratic Functions \(algebraic manipulation\)](#)

[Practice Problems](#)

[#7: Solving Right Triangle Problems Using Trig](#)

[Practice Problems](#)

[#8: Solving Systems of Equations in 2 and 3 Variables](#)

[Practice Problems](#)

[#10: Exponential Functions](#)

[Practice Problems](#)

[#11: Rules for Exponents](#)

[Practice Problems](#)

[#12: Simplifying Radicals](#)

[Practice Problems](#)

[#13: Complex Numbers](#)

[Practice Problems](#)

[All Video Playlist](#)

[All Practice Problems](#)

Part 2: Prerequisite Skills Assessment

During the first week of school in August, you will be given a test that will assess each of these prerequisite skills. We will not be reviewing these skills in class. It will be your responsibility to ask questions and seek understanding of any topics over summer before we return.

You can reach out to me via email if you have any questions or find yourself stuck on a particular topic. I am happy to help and/or provide additional resources.