

## Precalculus Grade Report

August 1, 2019

Art of Problem Solving Inc.  
10865 Rancho Bernardo Rd Ste 100  
San Diego, CA 92127

Greetings,

This letter is to confirm that Venkataram Edavamadathil Sivaram has completed Art of Problem Solving's Precalculus course. This is a 22-week course and should be considered equivalent to a full year in honors precalculus covering trigonometry, complex numbers, and linear algebra. This course is specifically designed for exceptionally high-performing students, and draws material from many programs for top high school students in the country. Venkataram earned a grade of A in this course.

Venkataram performed very well in the Precalculus course. His answers to the challenge problems were consistently excellent. Venkataram's solutions to weekly writing problems were typically well-organized, well-written, and generally correct. Even in the couple of instances where his solution wasn't fully correct and rigorous, he was on the right track. Furthermore, he consistently made great use of LaTeX to format her solutions clearly.

Overall, Venkataram's performance in Precalculus was consistently good and I'm confident that he's ready to move on to even more challenging mathematics!

Sincerely,

Remus Nicoara  
Art of Problem Solving  
classes@artofproblemsolving.com

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## Student Report



## How to Read This Report

Our system for communicating progress to students is based on colors. The green line is the target we set for them, since this is the point where we tell students that they have passed the week's material and are ready to move on. The blue line is the mastery line, and offers an extra challenge to the most motivated students.

**Overall:** This bar is built by combining the Challenge, Writing, and Participation bars. The length is based 64% on the Challenge Problem score, 32% on the writing problems score, and 4% on the Class Participation score.

**Challenge:** Every week, the student is challenged with 6-12 difficult short-answer problems based on the week's topic. These problems collectively test the student's ability to correctly apply the key concepts of the week. Students are allowed to re-attempt a problem until they answer correctly. The answers are automatically graded by a computer, giving the student instant feedback along with a full solution to each problem.

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**Writing:** Writing Problems require a student to write a full solution in complete sentences, rather than simply provide a numerical answer. Each problem serves as a capstone for the week and provides practice in mathematical writing. Here, the student is expected to articulate their creative, critical, and logical reasoning, and to show any step-by-step computations that lead to their final answer or proof. Writing problems are reviewed by our instructional staff, and students receive a grade as well as personalized feedback on both the technical and stylistic aspects of their submission.

**Participation:** The participation score is generated automatically by monitoring performance during class time.