Judson International School

Precalculus

Course Description: For the first part of the year, we will do a deep review of basic algebra and geometry, with an emphasis on *why* (deriving formulas, explaining or proving theorems). Students need to be able not just to follow steps but explain why the steps are the way they are. We will also apply this knowledge to more challenging reasoning problems, such as SAT problems.

Next, we will study functions in general, and then two special kinds of functions: trigonometric functions and exponential/logarithmic functions.

Finally, we will learn the basics of discrete math – sequences, counting, and probability.

Prerequisites: Algebra 2

Textbook: _Precalculus, Sixth Edition_ by Larson and Hostetler

Assessment: Most mornings, at the beginning of class, there will be a quiz. It is not meant to be difficult. I will tell you the day before exactly what will be on it. Almost every night you will be assigned a set of exercises. Grades will be based on homework, daily quizzes, chapter tests, class participation and final exam.