

Dear Students:

The UAB Department of Mathematics and UAB Special Studies announce a new initiative aimed at reaching out to high school students interested in Mathematics.

In the second semester of the academic year 2001-2002 we will run a UAB Mathematical School by Correspondence (UAB MASC). The School is devoted to an in-depth study of Trigonometry. We have chosen this field because it is related to Geometry and Analysis which are major topics in Mathematics. Studying at UAB MASC will allow students to develop a better understanding of these topics and of Mathematics as a whole. The main focus of the School will be on a theoretical study of Trigonometry, and on developing problem-solving skills which can then be applied to all kinds of problems, not necessarily related to Trigonometry. Therefore, studying at UAB MASC could be helpful for preparing for the mathematical part of tests like ACT or SAT.

The main audience of UAB MASC are 10-, 11- and 12-graders, even though as an exception we are willing to consider some 9-graders who have already covered Geometry. The textbook used in the school will be the following:

TRIGONOMETRY

I. M. Gelfand, Rutgers University, NJ

M. Saul, Bronxville Schools, NY

Birkhäuser, Boston-Basel-Berlin, 2001

ISBN 0-8176-3914-4

ISBN 3-7643-3914-4

The textbook can be ordered by mail from any major bookseller in the US or can be purchased through a local bookstore. I. M. Gelfand, originally from Moscow, currently from Rutgers University, is one of the greatest living mathematicians who devoted a lot of his time to working with high school students. He organized a very successful Mathematical School by Correspondence which has been operating in Moscow for a long time and in which a number of famous Russian mathematicians studied. UAB MASC is modeled after that school and will function as follows:

1. by the 1st of each month from January through May, 2002 students will be receiving assignments taken from TRIGONOMETRY and other sources;
2. the assignments are supposed to be mailed back to us postmarked no later than the 20th of each month;
3. the graded assignments will be returned to students together with the next assignment by the 1st of the next month.

To enroll to UAB MASC please call UAB Special Studies at (205)934-8263 and mention the UAB Mathematical School by Correspondence (UAB MASC), the course number NR2-5050-10A-02. The tuition is \$100. After completing a course, students will receive a Diploma of Completion, but most of all they will have received a deep knowledge of one of the basic mathematical fields.

Contact information:

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