

## FOR STUDENTS HOPING TO TAKE GEOMETRY AS A FRESHMAN

### **ALGEBRA PROFICIENCY TEST**

The algebra proficiency test is a test that will help us determine if you know covered enough Algebra as an 8th grader to take Geometry as a freshman. We want to be sure your Algebra skills are strong enough, not just for Geometry, but also for the following course, Algebra II.

These are the topics you should be familiar with when you take the test:

- 1.) Performing operations with integers, percents, and decimals
- 2.) Translating word phrases/sentences into algebraic expressions/equations
- 3.) Simplifying numerical and variable expressions
- 4.) Solving and graphing linear equations
- 5.) Solving and graphing linear inequalities
- 6.) Solving systems of linear equations/linear inequalities
- 7.) Identifying functions/relations and using function notation
- 8.) Simplifying exponential expressions using the properties of exponents
- 9.) Performing operations with polynomials, including factoring
- 10.) Solving quadratic equations by factoring
- 11.) Solving quadratic equations using quadratic formula
- 12.) Graphing quadratic functions
- 13.) Performing operations with radicals, including simplifying
- 14.) Solving radical equations

The topics at the end of the list are topics you may not have covered yet, but you will probably cover them by the end of the year. We will take this fact into consideration when we grade the test.

When you prepare for the test, you should **study**. One good strategy for studying math is to do some sample problems that you have the answers for, so you can check to see if you are doing them correctly.

Bring your calculator and a pencil for the test. Good luck on the test. The test is being administered on Wednesday, April 3<sup>th</sup> from 5:30 - 7:15 pm. It will also be administered on Saturday, April 6<sup>th</sup> from 9:30 - 11:15 am. If you have any questions call the main office (630-530-3464) or send an email to [midasek@iccatholicprep.org](mailto:midasek@iccatholicprep.org)

Thank you!

~ The Math Department at ICCP