June 2017

Dear Future Honors Geometry Student~

Hello! Welcome to Honors Geometry! This upcoming school year our mathematical focus will include Coordinate Geometry, Distance, Proofs, Triangles, Quadrilaterals, Trigonometry and Circles.

In order to prepare for our upcoming mathematical journey, it is necessary for you to review a few essential Algebra skills and some Geometry skills that will play a vital role in Honors Geometry throughout the course of the school year.

Attached is a worksheet of practice problems. Each section of the worksheet features a different skill that you will need in Honors Geometry. The problems in each section start out easy and get progressively more difficult. You may find some problems easy to do and others a bit more challenging. The worksheet will not be collected, but you will have a test over this material the first week of school.

It is best if you spread the problems out over the summer so that the worksheet is not an overwhelming task. The idea is for you to have these topics and concepts fresh in your minds when you return to school.

On my Moodle Page, there is a copy of this letter and worksheet. You can also find the answers to the worksheet.

Some supplies that you may need for the 2017 – 2018 school year include:

* a folder or binder with dividers
* colored pens, pencils or highlighters
* a graphing calculator, compass, protractor

You are strongly encouraged to have your own graphing calculator so that you can practice skills and complete your homework. The graphing calculator that will be used in class is from the TI-83/TI-84 family. Local retailers typically have these calculators on sale starting around July 1. Watch the sales ads and newspapers for the sales. You can also check local pawn shops for these types of calculators.

Please check your school email periodically over the summer. I may send you information about the class or sales on calculators!

I look forward to our journey through Honors Geometry next year! Have a safe summer!

Mr. Mansour

[tmansour@tfd215.org](mailto:tmansour@tfd215.org)

Table of Contents

1. Lesson 1 Solving Equations p.1
2. Lesson 2 Solving Proportions p.2-3
3. Lesson 3 Solving for Literals p.4-5
4. Lesson 4 Sketch graphs of lines p. 6-7
5. Lesson 5 Finding length between Collinear Points p.8-9
6. Lesson 6 Angles and Vertices p.10-11
7. Lesson 7 Angle Sum p.12-13
8. Lesson 8 Parallel Lines and Angles p.14-16
9. Lesson 9 Find Distance between two points p. 17-18
10. Solutions to problems

Listed below are several websites that might be helpful and a good resource.

[www.coolmath.com](http://www.coolmath.com)

[www.khanacademy.com](http://www.khanacademy.com)

[www.learnzillion.com](http://www.learnzillion.com)

[www.youtube.com](http://www.youtube.com)