

## Where is Geometry? Essay Application Assignment

Assigned: Friday, August 17, 2012

Due: Friday, August 24, 2012

### INTRODUCTION:

Although the answer to this question (preferred by Ms. Hanna) would be "Geometry is Everywhere," I want you to learn by proving it to yourself NOT because someone told you it was true. Mathematics is an investigation of worldly truth; what can we PROVE to be true and what can we PROVE to be false. Proof is a funny and indelible thing in mathematics. In mathematics, once we *prove* something to be true, it is true forever, for everything, and in every situation. Thus, put your thinking caps on!

### ASSIGNMENT:

How is Geometry applied in real-world situations? Be SPECIFIC, meaning choose an area of focus such as arts, sports, architecture, etc... and go into depth on that subject. Choose an example and **explain** it using the three main building block terms we learned today (Point, Line, and Plane -- and you may also include Space in your description). The more new vocabulary words the better!

### REQUIREMENTS:

- ✓ The essay must be one page but does not exceed one and half.
- ✓ The formatting should be double spaced, Times Roman, 12 point font (OR comparable).
- ✓ Include introductory and conclusion paragraphs, and use complete sentences.
- ✓ **Include one paragraph for each term: Point, Line, and Plane**
- ✓ If you use internet to research, please include a citation of the website. Since we have not covered MLA formatting and it's the beginning of the year, simply copying and pasting the URL at the end of the paper will suffice (however, this cannot count towards the one page minimum!)

### EXAMPLE:

Here is a brainstorm of a topic the essay could be one (note- do NOT use this one for your paper). For the paper, more information and explanation is expected on each point.

- |   |                                  |   |
|---|----------------------------------|---|
| ✓ | Introductory Paragraph: Topic    | <u>SAMPLE</u>   |
| ✓ | Body Paragraph 1: Explain Point. | - Volleyball  |
| ✓ | Body Paragraph 2: Explain Line.  | - There are 6 players on each side of the net. Each player stands at 6 different points on the court.   |
| ✓ | Body Paragraph 3: Explain Plane. | - During rotations, each player is assigned a route. When the ball is served, a player may start at middle hitter then quickly run to another place to get in proper position. This path is a line. |
| ✓ | Conclusion Paragraph: Summation! | - When bumping (or digging) the ball, players place two arms together to form a flat surface off which the ball bounces.  |