

Geometry

2011-2012 Webworks

Full Year Course

10th – 11th grade

One High School Math Credit

Course Tutor:

George McBride

mr.gp.mcbride@mac-n-mac.com

989 723 8747

Course Description:

This course is an exciting introduction to Euclidean Geometry, beginning with a presentation of set theory definitions, postulates, and theorems. Geometric proofs are introduced which give a conceptual framework for logical problem analysis. This serves not only to improve math skills but gives an analytical foundation that can help the student to better defend and promote their faith. Basic geometry skills such as area, volume, parallel lines, congruent triangles, transformations and symmetry, and circles are studied. Many related proofs are included and geometric constructions with a straight-edge and compass are used to reinforce the conceptual work.

Course Prerequisites:

Algebra I

Required Texts:

Geometry Student Text (3rd ed.) BJU Press, by Ron Tagliapietra ISBN: 978-1-59166-347-8

Geometry Tests (3rd ed.) BJU Press, by Ron Tagliapietra ISBN: 978-1-59166-351-5

Optional Parent materials: (Some parents may want to purchase this so they can assist their student .)

Geometry Teacher's Edition with CD (3rd ed.) BJU Press, by Ron Tagliapietra

ISBN: 978-1-59166-346-1

Geometry Testpack Answer Key (3rd ed.) ISBN: 978-1-59166-352-2

Required Supplies:

It is expected that each student will have the following:

- A three-ring binder for organizing all problem sets and class notes.
- $\frac{1}{4}$ " graphing paper is recommended for graphing.
- A compass
- A straight edge and ruler
- A protractor
- A scientific calculator recommended: TI-30XS Multiview
- To aid memorization, it is recommended that each student use 3x5 note cards to record definitions, postulates, mathematical properties, and theorems.

Tutor Bio:

George has varied career serving as a Field Service Engineer, Embedded Software Engineer and IT Technician. He serves his local church as a worship team member, and sound and IT technical advisor. He lives in central Michigan with his wife, not far from their son, daughter and their four grandchildren.