**Geometry**

This course is intended for students who will be taking Geometry during the upcoming school year, or who have already taken Geometry and are looking for review and reinforcement. **This course assumes an understanding of all Algebra I topics**. Please take the Geometry placement test before registering. A score of 70% or higher is recommended to enroll in this course.

**Course Topics:** Points, Lines, Planes and Angles, Deductive and Inductive Reasoning, Theorem and Proof, Parallel Lines and Planes, Congruent Triangles, Quadrilaterals, Inequalities, Similar Polygons, Right Triangles, Circles, Areas of Plane Figures, Volumes of Solids, Coordinate Geometry, Transformations and Symmetry

**Geometry Placement Test**

Complete the following questions without the use of a calculator.

1. Solve: .
2. Simplify .
3. Factor .
4. Evaluate  for 
5. Find the equation of the line through (3, –6) that is parallel to 
6. Solve .
7. Solve 
8. Scott and Heather cut a 160-foot cord into two lengths. The ratio of the lengths was 7 to 1. How long was each length?
9. Simplify .
10. Solve .
11. Evaluate the expression  for a = 4 and b = 3
12. Solve for x: 
13. Solve the equation 3(y + 6) = 30.
14. Tell whether the lines are parallel, perpendicular, or neither:

7x – 4y = 4

x – 4y = 3

1. Simplify 
2. Rationalize the denominator 
3. Simplify the product .
4. Find the difference 
5. Write an equation in point-slope form for the line through the point (10,-9) with the given slope -2.
6. Find the slope of the line that passes through the pair of points (1, 7)

and (10, 1).

Answer Key

1.  2.) 13x-13y 3.) (3x+7)(x-2) 4.) 23 5.) 6.) 2 7.) x=6 8.) 140 ft, 20 ft 9.)  10.)  11.) 144 12.) x=1613.) 4 14.) neither 15.)  16.)  17.)  18.)  19.)  20.) 

Scoring Guidelines

 70% or higher (14 or more correct): Geometry recommended

 Under 70% (0-13 correct): Algebra I recommended