

Name: \_\_\_\_\_

Date: \_\_\_\_\_

## Geometry Midterm Study Guide

### Part I: Formulas needed

Perimeter of a Rectangle: \_\_\_\_\_

Pythagorean Theorem: \_\_\_\_\_

Area of a Rectangle: \_\_\_\_\_

Distance Formula: \_\_\_\_\_

**(Distance = Rate\*Time)**

**This formula is used if wanting to calculate distance a person has traveled given their speed and the length of time they have traveled.**

### Part II: Vocabulary

Hypotenuse:

4 Quadrants:

Isosceles Triangle:

Equilateral Triangle:

Scalene Triangle:

Obtuse Triangle:

Acute Triangle:

Right Triangle:

Equilateral Triangle:

Conditional Statement

Converse:

Inverse :

Contrapositive:

Counter example:

## Part II. Vocabulary Continued

Vertical Angles:

Corresponding angles:

Consecutive angles (same side interior)

Parallel lines:

Perpendicular lines:

Transversal:

Alternate Interior angles:

Alternate Exterior angles:

Angle Bisector:

Altitude:

Perpendicular Bisector:

Median:

## Part III: Ways to prove Triangles Congruent:

- 1.) SSS - \_\_\_\_\_
- 2.) SAS- \_\_\_\_\_
- 3.) ASA- \_\_\_\_\_
- 4.) AAS- \_\_\_\_\_
- 5.) HL- \_\_\_\_\_

## Part IV: Other Concepts

Number of degrees in a triangle

Determining angles of a triangle from least to greatest or greatest to least

**Review Problems:**

**Do ODDS so that you can check your answers in the book.**

Page 23-24 (15-19, 43)

Page 80-81 (13, 37, 41)

Page 131-132 (9-31)

Page 210 – 211 (15-21, 27, (28 see me if you want me to check this is even)

Page 231-232 (43, 45, & 47)

Page 263 (15-27)

Page 297 (49, 51)

Page 438-439 (25-31)

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