# **NAME\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_DATE\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_PER.\_\_\_\_\_\_\_**

## **CHAPTER 6 TEST REVIEW**

**5 points added to your test, if complete!**

### PART 1: IMPORTANT GEOMETRIC TERMS

**Write a thorough definition and draw a picture for each of the following geometric terms.**

|  |  |
| --- | --- |
| 1. Perpendicular Bisector |  |
| 1. Angle Bisector |  |
| 1. Midsegment |  |
| 1. Altitude |  |
| 1. Median |  |
| 1. Orthocenter |  |
| 1. Centroid |  |

PART 2: SIMPLIFYING RADICALS

**Simplify the following.**

|  |  |
| --- | --- |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |

PART 3: PERPENDICULAR AND ANGLE BISECTORS

**Find the following.**

|  |  |
| --- | --- |
| 1. \_\_\_\_\_\_\_\_\_\_ |  |
| 1. \_\_\_\_\_\_\_\_\_\_ |  |
| 1. \_\_\_\_\_\_\_\_\_\_   \_\_\_\_\_\_­­\_\_\_ |  |
| 1. \_\_\_\_\_\_­­\_\_\_ |  |

**PART 4: TRIANGLE MIDSEGMENTS**

**In 26-30, use where , , and are the midpoints of the sides.**

|  |  |
| --- | --- |
| 1. \_\_\_\_\_\_\_\_\_\_\_ | Find .TA: C:\cur_proj\July 2014\AB art\book\Arts\PNGs\HSGeom_rbc_0604_006.png |
| 1. \_\_\_\_\_\_\_\_\_\_\_ | Find .TA: C:\cur_proj\July 2014\AB art\book\Arts\PNGs\HSGeom_rbc_0604_006.png |
| 1. \_\_\_\_\_\_\_\_\_\_\_\_ | and  Find the value of .TA: C:\cur_proj\July 2014\AB art\book\Arts\PNGs\HSGeom_rbc_0604_006.png |
| 1. \_\_\_\_\_\_\_ | Find the .TA: C:\cur_proj\July 2014\AB art\book\Arts\PNGs\HSGeom_rbc_0604_006.png |
| 1. \_\_\_\_\_\_\_\_ | Find .TA: C:\cur_proj\July 2014\AB art\book\Arts\PNGs\HSGeom_rbc_0604_006.png |

**PART 5: INEQULAITIES IN ONE & TWO TRIANGLES**

|  |  |
| --- | --- |
| 1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Write an inequality representing  the angles of the triangle in order  from smallest to largest. |
| 1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Write an inequality representing  the sides of the triangle in order  from shortest to longest. |
| 1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Tell whether a triangle can have sides with the given lengths. |
| 1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Tell whether a triangle can have sides with the given lengths. |
| 1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Find the range of values for if the side lengths of a triangle are: |
| 1. \_\_\_\_\_\_   \_\_\_\_\_\_ | Write an inequality comparing the two triangles. |
| 1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Write and solve an inequality  for the possible values of 𝑥. |
| 1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Write and solve an inequality  for the possible values of 𝑥. |

**A Mishmash of Answers:**

A segment that connects the midpoints of two sides of a triangle

A ray that divides an angle into two congruent angles

Point of intersection of the altitudes

A segment drawn from a vertex perpendicular to the opposite side (also known as height)

A segment that connects the vertex with the midpoint of the opposite side

A line that is perpendicular to a segment at its midpoint

Point of intersection of the three medians

Yes

No