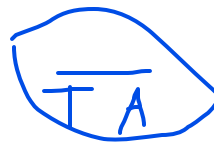
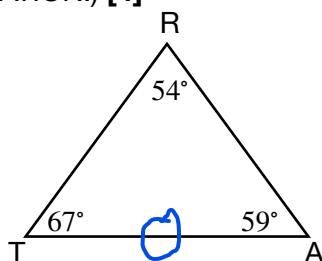


Geometry and Trigonometry
Quiz 6B: Geometric Inequalities

Name: _____
Period: _____

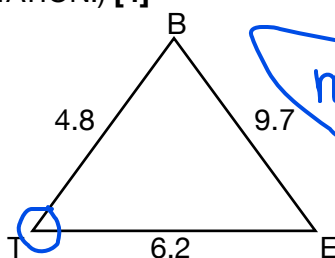
1. Given the diagram below, state the **smallest side** of the triangle.
(REMEMBER GEOMETRY NOTATION!) [4]

(not drawn to scale)



2. Given the diagram below, state the **largest angle** of the triangle.
(REMEMBER GEOMETRY NOTATION!) [4]

(not drawn to scale)



3. Determine whether a triangle exists with the given side lengths. **SHOW WORK!** Answers without demonstration of mathematical reasoning will earn zero credit.) [9]

(a) 5, 9, 16

(b) 21, 14, 7

(c) 12, 9, 15

4. Given two sides of a triangle are 8 and 17, find the range of values representing the 3rd triangle side. SHOW ALGEBRAIC WORK! Express your answer as a compound inequality. [8]