Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period: \_\_\_\_\_\_\_\_\_\_\_

**Geometry Argumentation – Special Right Triangles**

Marianna and Jade created their own special right triangles, Δ ABC and Δ ABD. They drew the following diagram. Marianna and Jade both want the length of to be However, Marianna and Jade disagree on the length of. Marianna thinks that the length of will be less than 9 Jade disagrees, and thinks that the length of will be greater than 9. Which student is correct, and what is the correct answer? Construct a mathematical argument to convince a classmate that your answer is correct.

