

ACTIVITY 13

continued

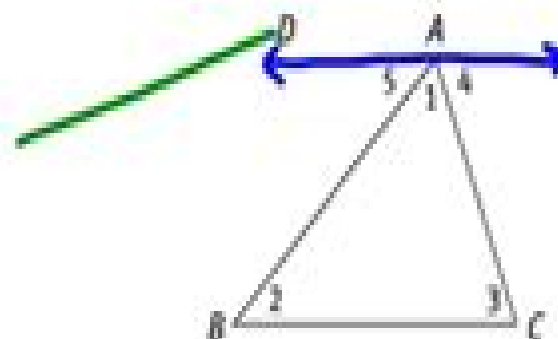
My Notes

Lesson 13-1

Angle Relationships in Triangles

You have just made a conjecture about the sum of the measures of the angles of a triangle, but the conjecture is not proven. Jason wants to prove the relationship to be absolutely certain he is correct.

5. **Make use of structure.** When you are given a figure for a proof, you cannot change anything in the figure. But you can add a line to a figure to help you complete the proof. A line used in this manner is called an **auxiliary line**. The proof of the Triangle Sum Theorem begins by drawing an auxiliary line D that intersects point A and is parallel to BC . Line D forms angles 4 and 5. Explain why you can draw line D .



6. Complete the proof of the Triangle Sum Theorem.

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