- •. **Def.** A <u>conjecture</u> is a statement that we believe is plausible. That is, we think it might be true, but we have not yet formulated a proof to show that it is indeed true.
- \triangleright . Conjecture B. If b and c are odd integers and a is an integer, then ab + ac is an even integer.
- ▶. Is Conjecture B true or false? Justify your answer.

Hint. You should understand that the instructions means to do one of the following.

- If Conjecture B is false, then say Conjecture B is false and also justify by providing a counterexample (i.e., an example which shows the conjecture is false). Explain why your counterexample shows that the conjecture is false
- If Conjecture B is true, then say Conjecture B is true and also justify by providing a proof.

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DELETE this whole sentence and THEN put your answer to ALL parts down here.