

Before stating this homework, review the [Symbolically Write Guidelines](#), which is also posted on the course homework page. It will answer many of the questions you might otherwise have.

▷. Conjecture B is from the previous ER 1.2.7 B.

Conjecture B. If b and c are odd integers and a is an integer, then $ab + ac$ is an even integer.

- 1a. Symbolically write Conjecture B using \mathbb{Z}^3 as the universe. (recall $\mathbb{Z}^3 = \mathbb{Z} \times \mathbb{Z} \times \mathbb{Z}$)
- 1b. Indicate whether Conjecture B is true or false (no justification needed, you already justified in ER 1.2.7 B).
- 2a. Symbolically write the negation of Conjecture B using \mathbb{Z}^3 as the universe.
Your negation should not contain the symbols: \sim, \neg .
- 2b. Using your answer to part 1b, determine whether the negation of Conjecture B is true or false.
Explain how you can arrive at your answer for 2b from your answer to 1b.

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