

Pin:
Name:

Hint. If $a = b$ and $n \mid a$ then does $n \mid b$?

►. **Conjecture B.** There exist integers x and y such that $6x + 15y = 2$.

1. Symbolically write Conjecture B.
2. State whether Conjecture B is true or false.
3. Justify your answer to the previous part. You should understand that this means the following. If Conjecture B is true, then provide a proof of Conjecture B. If Conjecture B is false, then provide a counterexample and clearly explain why the counterexample is indeed a counterexample.

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