CSE 311: Foundations of Computing I

QuickCheck: FOL and Inference (due Thursday, April 13)

Name:

0. Oddly Even

Let Even(x) be $\exists y\ (x = 2y)$, and let Odd(x) be $\exists y\ (x = 2y + 1)$. Let the domain of discourse be the set of all integers.

(a) Translate the following statement into English.

$$\forall x\ \forall y\ ((\text{Odd}(x) \wedge \text{Odd}(y)) \rightarrow \text{Even}(x + y))$$

(b) Prove the statement from part (a) using an *English proof*.

1. One Question!

Please come up with one question related to the course that hasn't been answered yet. It could be about policy, content, instructors, TAs, etc.