CSE 311: Foundations of Computing I

QuickCheck: FOL and Inference (due Thursday, October 9)

Name:

UW ID:

CSE 311 Section (circle one):	AA	AB	AC	BA	BB	BC
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0. Oddly Even

Let Even(x) be $\exists y \ x = 2y$, and let Odd(x) be $\neg Even(x)$.

(a) Translate the statement

 $\forall x \; \forall y \; ((\mathsf{Odd}(x) \land \mathsf{Odd}(y)) \to \mathsf{Even}(x+y))$

into English.

- (b) Prove the statement from part (a) using a formal proof.
 - 1. Let x be an integer.
 - 2. Let y be an integer.