# CSE 390Z: Mathematics for Computation Workshop

## QuickCheck: English Proofs (due Monday, January 29)

Please submit a response to the following questions on Gradescope. We do not grade on accuracy, so please submit your best attempt. You may either typeset your responses or hand-write them. Note that hand-written solutions must be legible to be graded.

We have created **this template** if you choose to typeset with Latex. **This guide** has specific information about scanning and uploading pdf files to Gradescope.

## 0. How Odd!

Prove the following statement using an English proof:

For any two integers, if exactly one of them is odd, then their sum is odd.

*Hint: You may find proof by cases useful for this problem.*

## 1. Video Solution

Watch the videos on the solution **after** making an initial attempt. The video is split into two parts, **part 1** and **part 2**. Then, answer the following questions.

(a) What is one thing you took away from the video solution?

(b) What topic from the quick check or lecture would you most like to review in workshop?