CSE 390Z: Mathematics for Computation Workshop

QuickCheck: Number Theory Proof (due Sunday, October 30)

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. Mod Madness

Prove that if $n \mid m$, where n and m are integers greater than 1, and if $a \equiv_m b$, where a and b are integers, then $a \equiv_n b$. Write an English proof of the statement.

1. Video Solution

Watch **this video** on the solution **after** making an initial attempt. 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?