

## CSE 390Z: Mathematics for Computation Workshop

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### QuickCheck: 1. Propositional Logic (due Tuesday, Jan 13)

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. Propositional Logic

Consider the sentence: "I do not eat pizza, or I buy groceries, or if I buy groceries then I eat pizza."

- (a) Define two atomic propositions. Then use the propositions to translate the sentence into logical notation.
- (b) Use a truth table to show that the sentence is always true.

#### 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?