

CSE 390Z: Mathematics for Computation Workshop

QuickCheck: Induction

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. Induction

Prove by induction that for all integers $n \geq 1$:

$$\sum_{i=1}^n 5i = \frac{5n(n+1)}{2}$$

1. Video Solution

Watch [this](#) solution video **after** making an initial attempt. Then, answer the following questions.

- (a) What is one thing you took away from the video solution?
- (b) On Tuesday, May 9th, we will do a full simulated 311 midterm in workshop. What is one thing you plan to do, or have already done, to prepare for the 311 midterm?