

# MAT-CSC A67: Discrete Mathematics — Summer 2024

## Quiz 4

Due Date: Monday, June 3, 11:59 PM, on Crowdmark

- Q1.** Using induction and constructive existential proof, prove that there exists a natural number  $n_0$  such for any natural number  $n > n_0$ ,  $3n < n^3$ .