



**CS 151: Mathematical Foundations of Computing**  
**Extra Credit Assignment 04**

This assignment must be submitted on *Gradescope* and is due Sunday, February 04, at 11:59PM (Central Time).

This assignment is optional and will count towards extra credit.

Prove the following statement using a *proof by contrapositive*.

1. For every non-zero real number  $x$ , if  $x$  is irrational, then  $1/x$  is irrational.