



CS 151: Mathematical Foundations of Computing Extra Credit Assignment 02

This assignment must be submitted on *Gradescope* and is due Wednesday, January 31, at 11:59PM (Central Time).

This assignment is optional and will count towards extra credit.

Let p be “I attend the lecture,” q be “I watch the lecture recording,” and r be “I do well on the quiz.”

Write the following argument in *argument form* (i.e., using propositions and logical operators) and prove that it is *valid* using the rules of inference. You must indicate the name of the rule used in each step of the proof.

1. If I attend the lecture, then I do well on the quiz.
I attend the lecture or watch the lecture recording.
I did not watch the lecture recording.
Therefore, I did well on the quiz.