

The majority of the credit you receive will be based on the completeness and the clarity of your responses. **Show all of your work and justify your solutions as much as possible.**

This is a 15 minute quiz and has 1 questions, for a total of 10 points

- (10 points) 1. Define a relation R on \mathbb{Z} as xRy if and only if $3x - 5y$ is even. Prove R is an equivalence relation.