

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. Prove that there exist no integers  $a$  and  $b$  such that  $18a + 6b = 1$ .