

MA1971

Name: _____

Quiz 3

D Term, 2015

Show all work needed to reach your answers.

1. (10 points) Suppose that U is some universal set and that A is a subset of U , that is, $A \subset U$. Using one or more of the axioms, please show that A_U^c (the complement of A in U) exists. Please cite the axiom(s) you use.

2. (10 points) Please show that $1 + 3 + 5 + \dots + (2n - 1) = n^2$.