

REAL AND COMPLEX VARIABLES PH.D. QUALIFYING EXAM

May 10, 2018

Three Hours

A passing paper consists of a total of six problems done completely correctly, or five problems done correctly with substantial progress on two others. At least three problems from each of Section A (Real Analysis) and Section B (Complex Analysis) must count toward the passing criteria, and two of these from each section must be completely correct.

Section A. Real Analysis

1. Let  $X$

## Section B. Complex Analysis