

# COMPLEX ANALYSIS 1 (MATH 5510)

## TEST 1 # 5 Solution - Fall 2017

NAME \_\_\_\_\_ E-NUMBER \_\_\_\_\_

Be clear on your proofs. Give all details and explain **why** each claim you make is justified. Write in complete sentences. Give the level of detail in your solutions which I have given in the solutions I have posted.

5. (Exercise II.5.4(a)) Let  $f : (X, d) \rightarrow (\Omega, \rho)$  and  $g : (\Omega, \rho) \rightarrow (Y, m)$  be uniformly continuous. Then  $g \circ f : (X, d) \rightarrow (Y, m)$  is uniformly continuous.