

Mathematics 552 Quiz #1

Name: _____

1. Let U be a subset of \mathbf{C} . Then define the following:

(a) U is open.

(b) The boundary of U .

(c) U is connected.

(d) U is a domain.

2. Let $f: (a, b) \rightarrow \mathbf{R}$. What is the definition of the derivative, $f'(x)$, in terms of a limit of difference quotients?