

## Mathematics 552

### Quiz #1

Name: \_\_\_\_\_

Define the following.

(1)  $D(a, r)$  (the open disk of radius  $r$  about  $a$ ).

(2)  $\bar{D}(a, r)$  (the closed disk of radius  $r$  about  $a$ ).

(3)  $U$  is an *open subset* of  $\mathbf{C}$ .

(4) The *boundary* of  $U$ .

(5)  $U$  is a *closed subset* of  $\mathbf{C}$ .

(6)  $U$  is a *domain*.