

# Mathematics 552 Quiz #1

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

1. For the complex number  $z = x + yi$  define the following:

(a)  $\operatorname{Re}(z)$

(b)  $\operatorname{Im}(z)$

(c)  $|z|$

(d)  $\bar{z}$

2. Show that  $\overline{z\bar{w}} = \bar{z}w$ .