

## Mathematics 552

### Quiz #2

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

Define the following as limits:

- (1) The derivative of  $f(z)$ .

$$f'(z) =$$

- (2) The partial derivative  $\frac{\partial u}{\partial x}(x, y)$

$$\frac{\partial u}{\partial x}(x, y) =$$

- (3) The partial derivative  $\frac{\partial u}{\partial y}(x, y)$

$$\frac{\partial u}{\partial y}(x, y) =$$