Full name: \_\_\_\_\_\_ GT ID:\_\_\_\_\_ Sec:\_\_\_\_

## Quiz 4 Version C Make-up

You have 15 minutes to take the quiz. No phones, notes, or use aids of any kind is permitted.

1. (3 points) Suppose w = f(x, y) and x(t), y(t) are both functions of t, then: Fill in the blanks for the missing formula [AN]



2. (7 points) [Chain Rule]

Using the implicit equation below, find  $\partial z/\partial x$  and  $\partial z/\partial y$  as well as the value of the partial derivatives at the point  $(\pi, \pi, \pi)$ . [AJN]

 $\sin(x+y) + \sin(y+z) + \sin(x+z) = 0$