

Math 224

Quiz 11

Name: _____

March 2, 2004

Show all work for credit.

1. Use the Chain Rule to find $\partial z/\partial s$ and $\partial z/\partial t$.
 $z = x/y$, $x = se^t$, $y = 1 + se^{-t}$

2. Use Implicit Differentiation to find $\partial z/\partial x$ and $\partial z/\partial y$ where
 $xyz = \cos(x + y + z)$