

MATH 116 SUMMER 2008 QUIZ 2

Name :

Student Id :

Section :

Problem: Assume

$$w = x^3 + yz + x \ln z, \quad x = u + \cos v, \quad y = u \sin v, \quad \text{and} \quad z = u^2 + 1$$

Evaluate $\frac{\partial w}{\partial u}$ and $\frac{\partial w}{\partial v}$ at $(u, v) = (0, \pi)$.