

## Math 241, Sections BL1 and BL2

### Quiz # 2

September 25, 2012

Solve both exercises. Show work to get credit.

1) [5pts.] Find the linearization of  $f(x, y) = 7 + e^{-xy} \cos y$  at  $(\pi, 0)$

2) [5pts.] Use the equation  $x - z = 3 \arctan(yz)$  to find  $\frac{\partial z}{\partial x}$  and  $\frac{\partial z}{\partial y}$