

Math 241, Sections BL1 and BL2

Quiz # 2

September 25, 2012

Solve both exercises. Show work to get credit.

1) [5pts.] Find an equation of the tangent plane to the surface $z = 4(x - 1)^2 + 6(y + 3)^2 + 4$ at the point $(2, -2, 14)$

2) [5pts.] Use the equation $\sin(xyz) = x + 5y + 8z$ to find $\frac{\partial z}{\partial x}$ and $\frac{\partial z}{\partial y}$