Name: October 6, 2016 MAC 2313.6717 Cyr

Quiz 6
You must show all work to receive full credit!!

Problem 1. (5 points) Find an equation of the tangent plane to $f(x,y) = x \sin(x+y)$ at the point (-1,1), and use it to approximate f(-0.8,1.4).

Problem 2. (5 points) Let $z = \sqrt{x}e^{xy}$, x = 1 + uv, $y = u^2 - v^2$. Use the chain rule to evaluate the partial derivative $\frac{\partial z}{\partial v}$ at the point (u, v) = (1, 0).