

Math 251

Quiz 5 September 28, 2016

Name:

By handing in this quiz you assert that you understand and have followed IIT's guidelines for academic integrity.

(1) Find the limit, if it exists: $\lim_{(x,y) \rightarrow (0,0)} \frac{x^3 e^y}{x^2 + y^2}$

(2) Find an equation of the tangent plane to the surface $z = x^2 e^y$ at the point $(2, 0, 4)$.