

“QUIZ” for Sept. 28, 2006

NAME: (print!) _____ **Section:** _____

E-MAIL ADDRESS: (print!) _____

1. Use implicit differentiation to find $\frac{\partial z}{\partial x}$ given the relationship

$$x + y^2 + z^3 = 2xyz \quad .$$

2. Find an equation of the tangent plane to the given surface at the specified point.

$$z = x^2 + y^2 + 2 \quad , \quad (1, 1, 4) \quad .$$