

Name: _____ **MATH 210 Quiz 4 (Sep 30, 2005)** no calculators!

(1) Let $z = f(x, y) = x^2 + y$. Find an equation of the tangent plane to the graph at the point $(1, 1, 2)$.

(2) Let $z = x^2 + e^{xy}$, $x = \ln t$, $y = \sin(t - 1)$. Find dz/dt .

What is its value at $t = 1$?