

Name:

Section:

Quiz 4

1. Find an equation of the tangent plane to $z = f(x, y) = x + y + e^{2x+3y}$ at the point $(0, 0)$.

2. Calculate the directional derivative of $f(x, y) = \ln(x^2 + y^2)$ in the direction of $v = \langle 3, 4 \rangle$ at the point $P = (-1, 2)$.