

Quiz 3a Calculus 3 9/26/2006

Each problem is worth 5 points. Clear and complete justification is required for full credit.

1. Find the first partial derivatives of $z = ye^{3xy}$.

2. Find an equation for the plane tangent to $z = x^2 + 3xy - y^3 - 5$ at the point $(2, -1)$.