Math 225: Calculus III

Quiz 7   *October 30, 2003*

Name:_____

Section:_____

1. Find the area of the part of the parabolid $z = 3x^2 + 3y^2$ that is below $z = 4 - x^2 - y^2$.

2. Find the moment about the y-axis of the lamina bounded by $y = 1$, $y = \sqrt{x}$ and $x = 0$ with density function $\rho(x, y) = 10e^{y^5}$.