

Math 225: Calculus III

Quiz 6 *October 18, 2001*

Name: _____

Section: _____

1. Reverse the order of integration in the double integral $\int_0^2 \int_0^{4-x^2} \sin(x^2 + y^2) dy dx$.
(Do *not* evaluate the integral.)

2. Find the volume of the solid under the surface $z = e^{y^2}$ and above the triangle with vertices $(0, 0)$, $(0, 1)$, and $(1, 1)$.