

Name:

Section (circle one): 10-11 11-12

1. Find the surface area of the part of the ellipsoid $x^2 + y^2 + 5z^2 = 9$ above the plane $z = 1$.

2. Evaluate the integral $\int_0^1 \int_x^2 \int_0^y x^2 y z \, dz \, dy \, dx$.