

Name _____

Mathematics 206a: Multivariable Calculus
Fall Semester 2005

David Haines

Quiz #35

November 28

Calculate $\oint_C 2xyz dx + x^2 z dy + x^2 y dz$ where C is the circle in which the sphere $x^2 + y^2 + z^2 = 1$ intersects the plane $z = \frac{1}{2}$.