Math 2401 M Calculus III Fall 2012, Georgia Tech

Quiz 9

- **1.** Compute the area of the region bounded by the ellipse $x^2/a^2 + y^2/b^2 = 1$.
- **2.** Integrate the vector field (x^2, xy, z^2) along the segment of the helix $(\cos(t), \sin(t), t)$ between the points (1, 0, 0) and $(1, 0, 2\pi)$.