Math 2551 Worksheet Section 15.6

- 1. Find the center of mass and the moment of inertia about the y-axis of a thin plate bounded by the line y=1 and the parabola $y=x^2$ if the density is $\delta(x,y)=y+1$.
- 2. A solid of constant density $\delta(x,y)=1$ is bounded below by the plane z=0, on the sides by the elliptical cylinder $x^2+4y^2=4$, and above by the plane z=2-x. Find \bar{x} and \bar{y} .

