- 1. Taylor 9.29.
- 2. Find the center of mass of each of the following.



a. A thin wire bent into the form of a three-sided square shape shown above, with each segment having equal length b.



- b. A quadrant of a uniform circular lamina of radius b, shown above.
- c. The area bounded by parabola $y = x^2/b$ and the line y = b.

d. The volume bounded by the paraboloid of revolution $z = (x^2 + y^2)/b$ and the plane z = b.

e. A solid uniform right circular cone of height b and radius R, with apex at the origin.

3. Find the moments of inertia about their symmetry axes of each of the objects in Question 2. Each object has mass m.