Problem Set 5    Calculus 3    Due 10/24/03

Each problem is worth 5 points. For full credit indicate clearly how you reached your answer.

1. Find the center of mass of the tetrahedron with vertices (0,0,0), (a,0,0), (0,b,0), and (0,0,c).

2. Find the surface area of the portion of the paraboloid $z = x^2 + y^2$ below the plane $z = h$.

3. Stewart §15.6 #22

4. Find the volume of the solid from problem 3.