

MA 112 - Calculus II  
Worksheet # 7  
Professor Broughton

Name: \_\_\_\_\_

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Due: Tuesday, Jan 28.  
Read section 6.2 on volumes

1. (a) Sketch the profile curve of a sphere of radius 2.

(b) Set up the integral to compute the volume.

(c) Compute the volume.

2. Compute the volume of sphere of radius  $R$



6. Hollow out the above solid using the profile curve.  $x^2 - y^2 = 0.85$ .  
What is the net volume?.

7. Find the volume of a right pyramid of height 10 units and square base  
of 25 square units.

8. Find the volume of a right pyramid of height 10 units and equilateral  
triangular base of 25 square units.