

**Unit 5 HW (Disks and Shells)**  
**MultiV 2021-22 / Dr. Kessner**

For each of the following shapes, express the volume as a triple integral in two ways (cylindrical coordinates: disks and shells). Solve each, and verify your answer with a formula.

1. Cylinder with radius 5 and height 6.
2. Cone with radius 2 and height 3.
3. Sphere with radius  $a$ .