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

For each of the following shapes:
a) Express the volume as a triple integral in cylindrical coordinates in two ways (disks and shells). Solve each, and verify your answer with a formula.
b) Calculate the lateral surface area, treating the shape as a surface of revolution. 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 $a$.
