

Chapter 8 Review

1. a. Compute the volume of a solid whose base is the region bounded by $y = x^2 - 4$ and the x -axis and whose cross-sections perpendicular to the x -axis are equilateral triangles.
b. Now compute the volume of the solid with the same base but whose cross-sections perpendicular to the y -axis are equilateral triangles.
2. Find the volume of a region whose base is a triangle with vertices $(0, 0)$, $(2, 0)$, and $(0, 1)$ and whose cross-section perpendicular to the x -axis are semicircles.
3. Section 8.4: 3,5,7,13,17,18,22
4. Chapter 8 Review: 5,8,9,10,12,15,18,20