

Reading Assignment # 2

Math 9 - Prof. Orellana

Sept. 28, 2007

1. What is the objective of Section 6.2? Be precise.
2. What is the volume of the circular cylinder? How is a “cylinder” defined in your book?
3. In your own words, explain how one can use cylinders to approximate the volume of a solid S . You can use figures.
4. What is a cross-section? Explain the meaning of Figure 2.
5. Use Riemann sums to give an approximation of the volume of a solid. The approximation is given in page 355, explain all the symbols in this approximation.
6. State the definition of volume. What is important to remember about $A(x)$?
7. Explain how Examples 2, 3, 4, and 5 are the same math problem. How do we call the solids that we obtained in these examples? Why?
8. What is the formula we use to define the volume of solids of revolution?
9. Describe the methods used to find cross-sectional areas described in page 359.
10. What do Examples 7, 8 and 9 have in common?