

MAT1575 Module 10 – Riemann sums for volumes.

Objectives: Modify and apply the algorithm from module 9 to approximate the volume of certain shapes.

1. Test your modified work from module 9 against the following examples:
 - (a) Approximate the volume of a sphere of radius 1.
 - (b) Approximate the volume (not including the bottom) of a cone with radius 2 and height 3.
 - (c) Approximate the ratio of the volume of a cone with radius and height x with the volume of a cylinder with radius and height x for various choices of x .