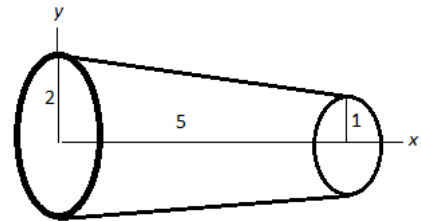


Serial No.: _____ Student Name: _____ Student Number: _____
Instructor: M. Z. Abu-Sbeih Math 102- Q2 Date: 24-3-2010

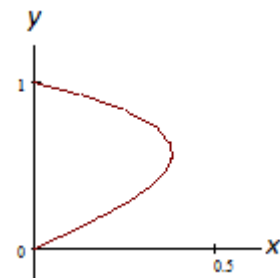
Problem 1: (7 points) Find the area of the region bounded by the graphs of $f(x) = 2^x$, $y = 8$ and the y -axis

Problem 2: (8 points) Use slice method to compute the volume of the frustum shown in the figure



Problem 3: (10 points) Set up an integral to compute the volume of the solid generated by rotating the area of the region in the first quadrant bounded by $x = y - y^3$ and the y -axis about the:

(a) x -axis



(b) line $x = 2$