

Group Exam 2

Calculus II
Professor Johnson
Fall 2006

Name: _____
Name of group member: _____
Name of group member: _____

Problem 1: Find the volume of a frustum of a right circular cone with height $h = 15$ and base radius $R = 20$ and top radius $r = 2$.

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Problem 2: Find the volume of the solid whose base is a disk of radius 7 and parallel cross sections perpendicular to the base are squares.

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Problem 3: Find the number b such that the line $y = b$ divides the region bounded by the curves $y = x^2$ and $y = 4$ into two regions of equal area.