Problem Set 3 Calculus 2 Due 3/17/14

You are encouraged to work in groups of two to four on this assignment and make a single group submission. Each problem is worth 5 points for correct and clearly justified answers

Consider the solid obtained by rotating the region between y = 1/x and the x-axis on the interval $[1, \infty)$ around the x-axis. This solid is traditionally called **Gabriel's Horn**.

- 1. Find the volume of Gabriel's Horn.
- 2. Find the surface area of Gabriel's Horn.