NAME: _____ **Panther ID:** _____

Worksheet, Feb. 16 - MAC 2312, Spring 2017

1. The region bounded between $y = 1/x^2$, $y = 0$, $x = 1$ and $x = 2$ is rotated around the x-axis. Set up an integral that gives the volume of the solid obtained. You are not required to evaluate the integral, but you should sketch the solid.

2. The region bounded between $y = 1/x^2$, $y = 0$, $x = 1$ and $x = 2$ is rotated now around the line $x = 3$. Set up an integral that gives the volume of the solid obtained. You are not required to evaluate the integral, but you should sketch the solid.

3. Pb. 33, section 6.3 (the hole in the sphere problem).