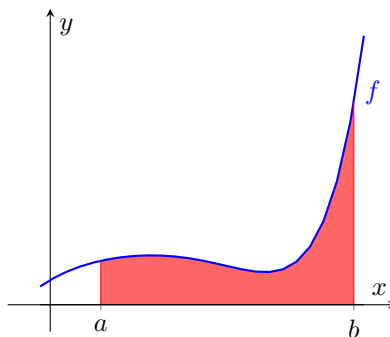**Quiz 6**   **MA 16020**   **Nick Egbert**

Instructions. Show all work, with clear logical steps. No work or hard-to-follow work will lose points.

Problem 1. (3 points) Set up an integral that represents the volume of the solid obtained by rotating the following region about the x-axis.

Problem 2. (5 points) Find the volume of the solid obtained by revolving the region bounded by
$$x = \sqrt{9 - y^2}, \qquad x = 0$$
about the x-axis.

Problem 3. (2 points) What model of calculator do you use for your homework; is it course-approved? If not, what course-approved calculator will you bring to the exam on Monday?