Read each problem very carefully before starting to solve it and do only what is asked. Each problem is worth around 5 points. It is necessary to show all your work. Correct answers without explanations are worth 0 points. GOOD LUCK!!

1. [2 points] Consider the region bounded by the graph of $x=9-y^{2}$ in the first quadrant. Suppose we rotate this region about the $y$-axis. Make a sketch of the resulting solid of revolution. (Please, do as decent a job as you can.)
2. [4 points] Use the washer method to find the volume of the solid you sketched in Problem 1.
3. [6 points] Use cylindrical shells to find the volume of the solid you sketched in Problem 1.
