QUIZ 4 - MATH 152 YOUR NAME:

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

Please, read carefully so as not to misunderstand the region under consideration. Let $f(x) = \sqrt{x}$ and $g(x) = \frac{1}{x}$. Consider the region enclosed by the graphs of y = f(x), y = g(x) and the line x = 4.

1. Make a rough sketch of this region on the space provided here:

2. Compute the area of the region that you sketched in Part 1.

3. Use the washer method to compute the volume of the solid that results by revolving the region of Part 1 around the x-axis.