QUIZ 2

- Show all your work and indicate your final answer clearly. You will be graded not merely on the final answer, but also on the work leading up to it.
- 1. (3 points) Find the area of the region enclosed by the curves y = x and $y^2 3x = 4$.

2. (3 points) Find the volume of the solid whose base is the region enclosed by the curves $y = \sqrt{1-x^2}$ and y = 0 and whose cross sections perpendicular to the x-axis are squares.

3. (4 points) Find the volume of the solid obtained by rotating the region enclosed by $y = \sqrt{25 - x^2}$, x = 2, x = 4, and y = 0 about the x-axis.