Name:	Section:
Clear your desk of everything except pens, pencils and erasers.	Show all your work.
If you have a question raise your hand and I will come to you.	

- 1. Find the volume of the solid generated by rotating the region of the x-y plane between the curves $y=x^2$ and $y=\sqrt{x}$, for $0 \le x \le 1$, about the y-axis.
 - (a) (4 points) Draw a picture of the region in the plane, and a picture of the solid.

(b) (3 points) Write the formula for the area of a cross-section.

(c) (3 points) Set up, but do not evaluate, the integral representing the volume of the solid.