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 about the x-axis the region bounded by the curves $y = \sqrt{25 x^2}$ and y = 0.
 - (a) (4 points) Draw 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.