

Please show **all** your work! Answers without supporting work will not be given credit.  
Write answers in spaces provided.

Name: \_\_\_\_\_

1. [5 pts] (**EXACT ANSWER ONLY!**) Find the volume of the solid generated by revolving the region enclosed by the curves

$$y = \sqrt{4x} \quad \text{and} \quad y = 2x^2 \quad \text{about the } y\text{-axis}$$

Answer: \_\_\_\_\_

2. [5 pts] (**EXACT ANSWER ONLY!**) Find the volume of the solid generated by revolving the region enclosed by the curves

$$y = \frac{27}{x^2}, \quad y = 3 \quad \text{and} \quad x = 1 \quad \text{about the line } y = 3$$

Answer: \_\_\_\_\_