

**Last name:** \_\_\_\_\_

**First name:** \_\_\_\_\_

**Section:** \_\_\_\_\_

Question:	1	2	Total
Points:	10	10	20
Score:			

**Instructions:** You must answer all the questions below and give your solutions to the TA at the end of the recitation. Write your solutions on a different sheet of paper. No late worksheet will be accepted.

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QUESTION 1 \_\_\_\_\_ (10 pts)

The following integral represents the volume of a solid. Describe the solid.

$$\int_0^3 2\pi x^5 dx.$$

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QUESTION 2

(10 pts)

Find the volume of the solid obtained by rotating about the  $x$ -axis the region bounded by  $y = \sqrt{x}$ ,  $x = 0$ , and  $x = 2$ .