**Math 252 Homework 11 Written Part Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

*Write legibly. Show your work. Graph neatly. Use a ruler for all straight lines.*

**Practice with volumes:**

1. Sketch the relevant area (before rotation), marking your scale.
2. Draw the representative rectangle.
3. Label or list the measurements you will need to find the volume.
4. Find the volume of the representative disk, washer, or cylinder.
5. Set up the integral to find the volume of the whole shape.
6. Solve the integral, expressing your answer in exact (not decimal) form.

**(1)** Start with the area bounded by , , and , then rotate around the line . Use washers.

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**(2)** Start with the area bounded by , , and , then rotate around the line . Use washers.

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