

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

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

1. Find the **VOLUME** of the region bounded by

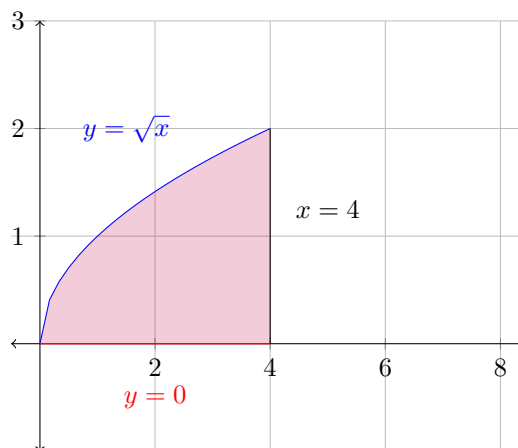
$$x + 3y = 9, \quad x = 0, \quad y = 0$$

around the y-axis

Volume = \_\_\_\_\_

2. Let  $R$  be the region shown to the right. Set up the integral that computes the **VOLUME** as  $R$  is rotated around the line  $x = 4$ .

**DON'T COMPUTE IT!!!**



Volume = \_\_\_\_\_