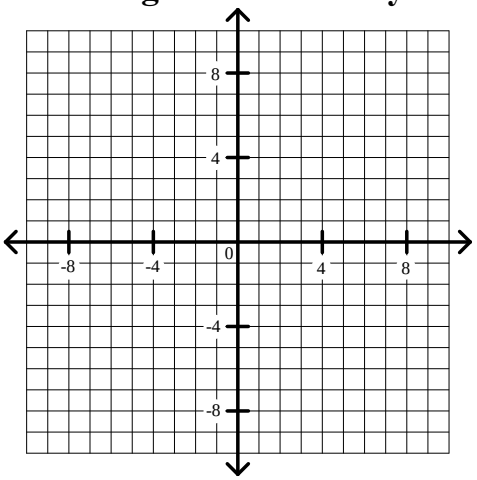
# Calculus Class Worksheet #5 Unit 3 _____

**For each of the following problems you must**

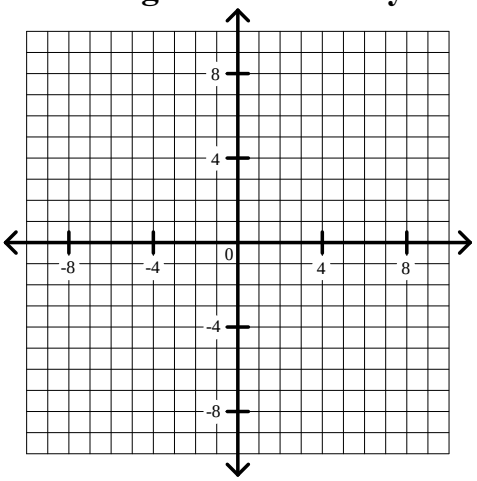
**a. sketch a graph of the region described, and**

**b. use calculus to find the volume of the solid formed when this region is revolved about the x-axis. (You should round to 3 significant figures where appropriate.)**

**1. the region bounded by the x-axis, the lines x = 1 and x = 5, and the line y = 2x + 3**




**2. the region bounded by the x-axis and the curve $y = 2 + x - x^2$**




**3. the region bounded by the x-axis, the lines x = 1 and x = 4, and the curve $y = \sqrt{x}$**