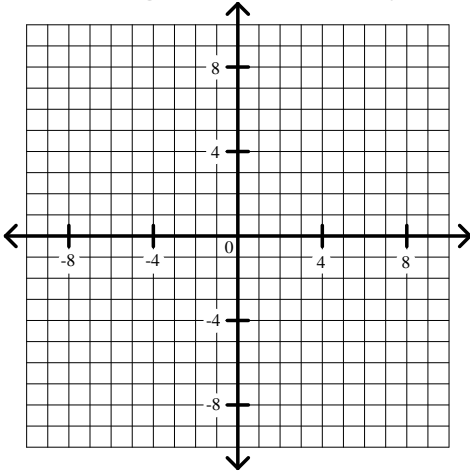


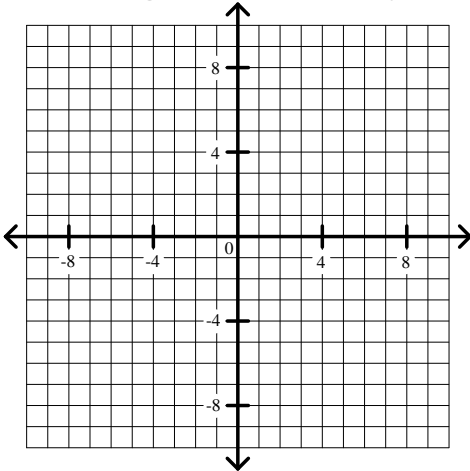
For each of the following problems you must

- 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.)

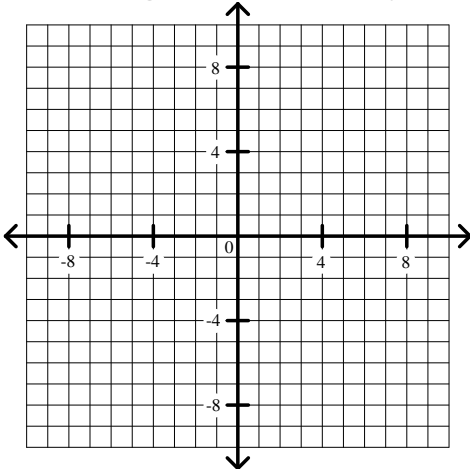
1. the region bounded by the x-axis, the lines $x = 2$ and $x = 4$, and the curve $y = x^2$



2. the region bounded by the x-axis, the lines $x = 0$ and $x = 2$, and the curve $y = x^2 - 9$



3. the region bounded by the x-axis, the line $x = 2$, and the line $2x + 3y = 12$

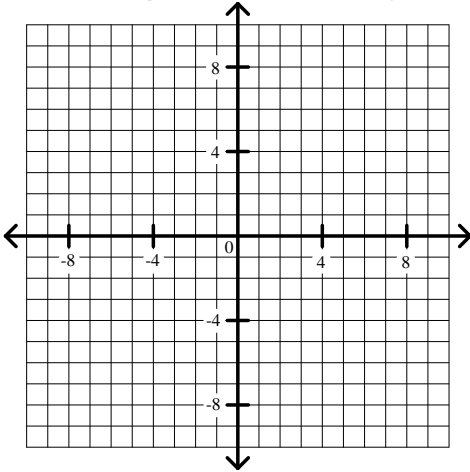


Calculus Worksheet #7 Unit 3 page 2

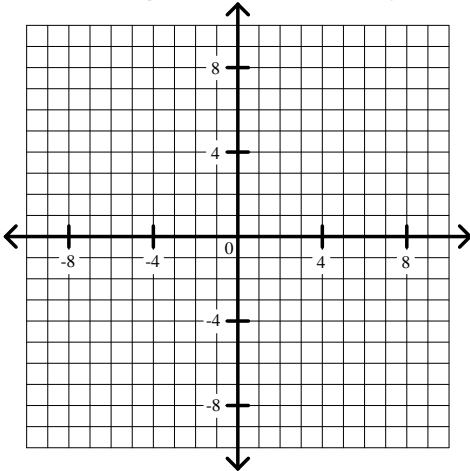
For each of the following problems you must

- sketch a graph of the region described, and
- 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.)

4. the region bounded by the x-axis and the curve $y = x^2 - 4$



5. the region bounded by the x-axis and the curve $y = x^3 + 2x^2$



6. the region bounded by the x-axis, the line $x = 8$, and the curve $y = \sqrt[3]{x}$

