Calculus Worksheet #3 Unit 11 Selected Solutions

Use õshellsö to find the volume generated by rotating the given region about the given line. For each problem, you must

- a) sketch the generating region, showing a typical generating rectangle,
- b) write an expression for the volume generated by this rectangle,
- c) express the exact volume of the solid as a definite integral, and
- d) evaluate the integral.

Show all of your work neatly organized on graph paper.

2. The region in the first quadrant enclosed by $y = x^3$ and y = 4x is rotated about the x-axis.

