For each three dimensional object described below,

- a. Sketch the solid described
- b. Set up an integral that gives you the volume of the object
- c. Evaluate the integral to find the volume
 - 1. The region bounded by y = 4 2x in the first quadrant is rotated about the *x*-axis
 - 2. The region from #1 is rotated about the *y*-axis
 - 3. The region bounded by $y = \sqrt{x}$, y = 2, and x = 0 is rotated about the *y*-axis
 - 4. The region from #1 is rotated about the line y = -3
 - 5. The region from #3 is rotated about the line x = 4