(1) [7] The region bounded by the curves y = x and $y = \sqrt{x}$ is rotated about the line y = 1. Determine the volume of the resulting solid. (The disk method would work best here.)

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(2) [8] The region bounded by the curves $y = x^2$, y = 0, x = 1 and x = 2 is rotated about the line x = 4. Determine the volume of the resulting solid. (Cylindrical shells would be best here.)