Instructions: Include all relevant work to get full credit. Write your solutions using proper notations. Encircle your final answers.

Quiz #20

1. Find the volume of the solid obtained by rotating the region bounded by $y = x^3$, y = 0, and x = 2 about the x - axis.

2. Find the volume of the solid obtained by rotating the region bounded by $y = x^3$, y = 0, and x = 2 about the line y = -1.