Quiz #1, 1/21 Math 157 (Calculus II), Spring 2025

Problem 1 is worth 5 points, and Problem 2 is worth 5 points, for a total of 10 points. Remember to $show\ your\ work$ on all problems!

1. Compute the area between the curves y = x and $y = x^3$ from x = -1 to x = 1. (Hint: sketch a picture of the curves.)

2. Compute the volume of the solid obtained by rotating the region under the curve $y=\sqrt{x}$ from x=2 to x=4 about the x-axis.