Quiz 3

Name:

- 1. Let D be the region bounded by the x axis, the lines x = 1 and x = 4 and the graph $y = 10 \frac{1}{6}x^2$.
 - (a) Make a rough sketch of the region D.

(b) Find the area of D.

2. Let Ω region bounded by the x axis, the lines x = 1 and x = 10 and the graph $y = \frac{1}{x^2}$. Then find the volume when this region is rotated about the x axis.

3. Set up the integral for the length of the curve $y = \tan(x)$ for $0 \le x \le \pi/4$.