Homework 2

Name:

P 1. Sketch the region between the graphs of the equations

$$y = \sin x \text{ and } y = \cos 2x$$

on the interval $[0, \pi]$. Find the area of the region.

P 2. Find the volume of the solid obtained by revolving the region bounded by the graphs of

$$y = \frac{3^{x/2}}{(1+3^x)^{3/2}}, y = 0, x = 0, x = 2$$

about the x-axis.