APPM 1360	Name:	
Spring 2022		
Quiz 4		
02/22/2022		
Time Limit: 10 Minutes	Recitation Section:	

- 1. (10 points) Below, you will verify that the surface area of a sphere is $4\pi R^2$.
 - (a) Write down the formula for a semicircle with radius R that lies above the x-axis and is centered at the origin.
 - (b) Now imagine we rotate this semicircle around the x-axis in order to form a sphere. Set up and evaluate an integral for the surface area.