APPM 1360	Name:
Spring 2022	
Quiz 3	
02/15/2022	
Time Limit: 10 Minutes	Recitation Section:

- 1. Consider the region in the first quadrant bounded by the bell-shaped curve $y = e^{-x^2}$ and the line x = 1.
 - (a) Sketch the region and compute the intersection points of $y = e^{-x^2}$ with x = 1 and the y-axis.
 - (b) Set up, **but do not evaluate**, an integral for the volume of the solid obtained by rotating this region about the line x = 3.
 - (c) Set up, **but do not evaluate**, an integral for the volume of the solid obtained by rotating this region about the line y = 5.