

Math 181
Spring 2010

Name _____

Homework #1

Due Monday, March 1

No late papers accepted! No excuses!

1. Find the volume of the solid generated by revolving the region bounded by

$$y = 2x^2$$

$$y = 0$$

$$x = 2$$

- a) about the x-axis.

b) about the y-axis

c) about the line $x = 2$

2. Find the volume of the solid generated by revolving the region bounded by

$$y = \frac{1}{\sqrt{2\pi}} e^{-\frac{x^2}{2}}$$

$$y = 0$$

$$x = 0$$

$$x = 1$$

About the y-axis.