

Math 2260 HW #2

Due 10:10 AM Friday, January 20

Reading: Hass §6.1–6.2

Problems: Do the assignment “HW2” on WebWork. In addition, write up solutions to the following problems and hand in your solutions in class on Friday.

1. Find the area of the region that is enclosed between the curves $y = 2\sin(x)$ and $y = 2\cos(x)$ from $x = 0$ to $x = \pi/2$.
2. Find the volume of the solid generated by revolving the region bounded by the x -axis and the semicircle $y = \sqrt{4 - x^2}$ around the x -axis.