

Math 2, Winter 2016

WEEKLY HOMEWORK #9 — DUE MONDAY, MARCH 7

Textbook problems:

Section 5.1: 46.

Section 5.2: 40, 47.

Section 5.3: 17, 39.

Also do the following problem:

The area of a regular hexagon with side length a is $\frac{3\sqrt{3}}{2}a^2$. Use calculus to find the volume of a pyramid of height $h = 2$ whose base is a regular hexagon with side length $b = 2$.

Hint: Compare to the cone examples we have done. You may end up considering a region bounded by the lines $y = x$ and $y = 2$.