## Homework Set 5

Due: March 4, 2019 (at the beginning of class)

## To be handed in

Please write your solution to Problem 1 on a single sheet of paper!

1. Set up (but no need to evaluate!) the integral that computes the volume of the solid obtained by revolving the region bounded by the parabola $y=-\frac{x^{2}}{16}$ and the line $y=-1$ about the following lines:
a) $y=-1$
b) $y=-2$
c) $y=1$
d) $x=5$
e) $x=-6$
2. Textbook (5th edition) Section 7.2, Exercises 9, 10, 19-22, 31, 32
3. Textbook (5th edition) Section 7.3, Exercises 1-8, 15-20, 47, 48, 57
