

Calculus 2 - Homework Day 20

Professor:

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Office Hours:

Check the class website for office hours: calculus2.joannabieri.com

Homework Problems due Before Next Class

1. WeBWorK - Section 6.4
2. Book Problems - Do exercises 5 and 7 from section 6.4
3. Moodle - Please write up a cheat sheet / flow chart for how you solve each of the following types of problems:
 - Area between two curves.
 - Arc length along a curve.
 - Mass of a 1-d object.
 - Mass of a 2-d object.
 - Volume of revolution with a solid disk.
 - Volume of revolution with a washer.
 - Work to pull up a rope or chain.
 - Work to empty a 3-d tank.
 - Fluid Force against a 2-d surface submerged in water.

This is partly a review for the exam. You should include all of the important equations you use and any helpful words to remind you how to do the problems like "I subtract top function from the bottom function" or "I know it's a washer when..."

Prepare for Next Class:

1. Look for PRE CLASS material under Day 21
2. Make sure to do the You Try problems from the lecture video.
3. Make a list of questions for your group and professor.
4. Take the daily survey.

Other Notes:

The best way to get good at applied integration problems is to practice a lot and understand the process. Logic is your friend here!!