

# MATH 1452-012: EXAM 1 INFO/LOGISTICS/ADVICE

## • INFO:

|                |                                |              |          |
|----------------|--------------------------------|--------------|----------|
| WHEN:          | Wednesday (02/19) at 2:00pm    | DURATION:    | 110 mins |
| PROBLEM COUNT: | Appropriate for a 110-min exam | BONUS COUNT: | Several  |

- TOPICS CANDIDATE FOR THE EXAM: (“SST” = “Strauss, Smith & Toda” (i.e. the textbook))
  - \* SST 6.1: Areas between Curves
  - \* SST 6.2: Volumes using Cross Sections (Slabs), Washers, Shells
  - \* SST 6.3: Graphing Polar Curves, Areas of Polar Regions
  - \* SST 6.4: Arc Length of Curves (both rectangular & polar)
  - \* SST 6.5: Work (Variable Forces, Springs, Pumping Fluids), Fluid Force, Centroids
  - \* REMARK: Problems will ask you to **setup** integral(s), not compute them.
  - \* REMARK: Problems will ask you to **sketch & characterize** relevant regions prior to setting up integrals.
    - By “characterize” I mean identify all boundary curves (BC’s) & boundary points (BP’s).
  - \* REMARK: No integral formulas will be provided, so either memorize them or learn how to derive them.
- TOPICS CANDIDATE FOR BONUS QUESTIONS:
  - \* SST 6.4: Surface Area (both rectangular & polar)
  - \* ?????
  - \* REMARK: **Maximum Bonus Points Possible = 20**
- TOPICS NOT COVERED AT ALL:
  - \* SST 6.5: Volume Theorem of Pappus
  - \* SST 6.6: Applications to Economics, Business, and Life Sciences (entire section)
  - \* REMARK: Problems will NOT ask you to setup Riemann sums.

## • LOGISTICS:

- All you need to bring are pencil(s), eraser(s) & your Raidercard.
- Clear your desk of everything except pencil(s) and eraser(s).
- **Books, notes, notecards, calculators NOT PERMITTED.**
- Mobile devices (phones, tablets, PC’s, music, ...) are to be shut off and put away.
- Tissues will be furnished – for allergies, not for sobbing.
- No talking or cheating!
- **When you turn in your exam, be prepared to show me your Raidercard if I don’t recognize you.**
- **If you ask to use the restroom during the exam, either hold it or turn in your exam for grading.**

## • ADVICE:

- Use the restroom before the exam, if needed.
- Do not be late to the exam.
- Review past homework, and perhaps even work some similar problems in the textbook.
- Review the slides.
- Use flashcards to aid in memorization of hard formulas.
- Study for the exam together in groups.
- Show up to the review session on Monday (02/17).
- **If you need more review, show up to the last-minute help session Tuesday evening (02/18).**
- **SHOW APPROPRIATE WORK! Attempt bonus questions.**