

Weekly Work 8 - Exam 2 Review

For Weekly Work 8 you will **pick an exam review problem and bring it to class** on Friday. (You should have coordinated topics with your group in class.) You will spend time in class working in groups on your problems as review for Monday's exam. This is in place of our regular Friday quiz.

Requirements:

- Your problem should cover a topic being tested on Exam 2. See the topics listed below.
- Your problem should be complex enough to be a free response question (This is important! Make sure you check that the solution to your question is not one or two lines of work!)
- Your problem should **NOT** be pulled from one of the practice exams that are posted on Canvas

You can find problems in our textbook (access through WebAssign) or one of these open source textbooks: <https://activecalculus.org/single/book-1.html>, <https://openstax.org/books/calculus-volume-2/pages/1-introduction>.

Midterm 2 Topics:

- Work
 - springs
 - ropes
 - water pumping
- Center of mass
- Parametric equations
 - tangents to parametric curves
 - arc length
- Polar
 - tangents to polar curves
 - areas enclosed by polar curves
- Differential equations
 - separable differential equations
 - initial value problems
- Sequences
 - limits and convergence/divergence
- Series
 - definition of infinite series as the limit of partial sums
 - telescoping series
 - the Divergence Test