EXAM 1 IS THURSDAY IN QUIZ SECTION

Allowed:

1. A **Ti-30x IIS Calculator**
2. An 8.5 by 11 inch sheet of handwritten notes (front/back)
3. A pencil or black/blue pen

Details and rules:

1. 5 pages of questions, 80 minutes, use your time effectively.

2. **Show your work using methods from class.** The correct answer with no supporting work is worth zero points. If you guess or use some formula from some other class, you don't get credit (unless you explain your work in some way).

3. Clearly indicate work you want graded. Put a box around your final answers.

4. No make-up exams; if you are physically unable to be at the test, contact me as soon as possible (and your grade will be prorated, meaning your other exams will be worth more)

5. Leave your answer in exact form, BUT simplify standard trig, inverse trig, natural logarithm, and root values. Here are some examples of un-simplified answers I have seen on tests in the past (I might take off one point if you do this):

$\sqrt{4} =$ $\qquad$, $8^{2/3} =$ $\qquad$, $\tan(0) =$

$\cos(0) =$ $\qquad$, $\cos(\pi) =$ $\qquad$, $\cos\left(\dfrac{\pi}{6}\right) =$

$\sin\left(\dfrac{3\pi}{2}\right) =$ $\qquad$, $\tan\left(\dfrac{\pi}{4}\right) =$ $\qquad$, $\tan^{-1}(1) =$

$\ln(1) =$ $\qquad$, $\ln(e) =$ $\qquad$, $e^0 =$

Quick Review

1. Riemann Sum Approximation (Left/Right/Midpoints)
   Riemann Sum Notation

2. Definition of definite integral.
   Definition of indefinite integral

3. Antiderivatives, solving for constants.

4. Fund. Thm. of Calculus, part 1.

5. Fund. Thm. of Calculus, part 2.

6. Net Change and Total Change

7. Distance/velocity/acceleration

8. Substitution.

9. Areas between Curves.

10. Volumes of solids:

   Cross-sectional area method,
   Cylindrical shells.