

Final is Saturday, June 3rd

ARC 147

1:30-4:20pm

Before you go to the exam write down your quiz section and TA's name!

Allowed:

- One 8.5 by 11 inch sheet of **handwritten** notes (front and back).
- A **Ti-30x IIS Calculator**

Nine pages of questions.

Comprehensive.

EXAM 1 MATERIAL

Riemann Sums, integral def'n,
Fund. Thm of Calc (Both Parts),
Net Change and Total Change,
substitution, Areas between Curves,
Volumes of solids (cross-sectional
method, cylindrical shells method).

EXAM 2 MATERIAL

Work: Springs, Cables, Pumping.

Average Value.

Integration by parts, Partial Fractions,
Trig Integrals, Trig Substitution,
Improper Integrals, arc length.

NEW MATERIAL

Center of Mass

Solving separable differential.

Solving and interpreting a differential
equation in a "story" problem.

(Natural growth, cooling, mixing, ...)