Reminder: (1) You can (and should) bring a copy of the table of integrals as found on the tear-out pages in the back of your book. If you don’t have a copy, you should get a copy from someone. (2) You can (and should) bring a calculator since you will need to evaluate the integrals and come up with an answer.

- The quiz covers the material from sections 6.5 - 6.7. You should be able to evaluate any given integral.
- Read each question carefully and follow the directions. Show all your work (all the work requested).
- There will be a selection of problems like those in sections 6.5-6.7. I will give you the basic relationship, e.g. Work = Force \times Distance, and the basic constants. Of the $N+1$ problems given, you’ll need to completely do $N$ of them.
- A completely done problem will have three parts:
  1. Approximate the answer by dividing the appropriate part into pieces where the values of the elements in the basic relationship are constant, working out the value of one piece, and then adding them up.
  2. Expressing the answer as an integral (as a limit of the approximation).
  3. Evaluating the integral to get an answer.
You should draw pictures or diagrams as needed. Units will matter.
- To prepare for this exam go through the examples in each section, working the problem in the format given above. You can also use examples we did in class and the homework and review section exercises. Focus on how the problem was broken down and the basic formula was used, rather than on just memorizing the integral formula.