

Study guide for Midterm 02

Review the study guides for quiz 05 - quiz 08. They are all relevant for midterm 02. What did not appear in the quizzes will probably appear in midterm 02.

1. Section 5.5, part 2: Go through exercises 17-66 to practice advanced problems using substitution method. Study the tricks in the hints of homework 10.
2. Section 6.1: Practice on how to find $A(x)$ in the formula $\int_a^b A(x)dx$ (or $A(y)$ in $\int_a^b A(y)dy$, $A(z)$ in $\int_a^b A(z)dz$, respectively). Read the examples in section 6.1 and try a few in Exercise 6.1. Also think about how to choose the best direction of slicing in these examples.
3. Section 6.1: Study the method of disks (washers) for both volume of revolution around x - and y - axis.