

Test #1 will be given on Wednesday, September 24. It will include material from Sections 5.3, 5.5, 5.6, and 5.7. No calculators will be permitted on this test.

MAKEUP POLICY REMINDER:

If you know in advance that you have to miss a quiz or test, you can make arrangements with me to take the quiz or test **before** it is given in class. Otherwise, no makeup quizzes will be given. If you miss an hour test, it may be made up only if you

1. Contact me on or before the scheduled test date.
2. Can prove that you have a legitimate excuse.
3. Show me all homework on the relevant material.

If you do not meet these conditions, you will not be permitted to take a makeup test and the percentage equivalent of your final exam grade will be substituted for the grade of the missed test. No student will be permitted to take more than one makeup test.

This test will cover basic integration, u-substitution, integration by parts, integrals involving powers of sines and cosines, trigonometric substitutions, and partial fractions. There will be no applications on this test.

To be prepared for this test, you should know and be able to use Formulas 1- 13, 16 and 17 in the Table of Integrals in the back of our textbook.

Exercises for Review

Chapter 5 Review (p. 439)

Exercises: 13 – 23, 25 – 33, 71

In addition, you should go over all worksheets, homework problems, and quizzes.

For additional integrals for practice, see the other side of this paper.

1. $\int \frac{x}{x^2+16} dx$

8. $\int \frac{5x+1}{x^2+3x-10} dx$

2. $\int \frac{1}{x^2+16} dx$

9. $\int \frac{(1+\sqrt{t})^9}{\sqrt{t}} dt$

3. $\int \frac{x}{x^4+16} dx$

10. $\int e^{\sqrt{x}} dx$

4. $\int x^2 \ln x dx$

11. $\int x^2 \sin x dx$

5. $\int \sin^3 x dx$

12. $\int \frac{5x^2-10x+11}{(x-3)(x^2+4)} dx$

6. $\int \frac{x^2}{\sqrt{1-x^2}} dx$

13. $\int \frac{x^3+1}{x^3-x} dx$

7. $\int \frac{x+5}{x^2+9} dx$

14. $\int x\sqrt{x-5} dx$

