

Test #3 will be given on Wednesday, November 5. It will include material from Sections 6.3, 6.4, 6.5, and 7.1 - 7.5.

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. My office telephone number is 301-279-5215. If I am not there, leave a message. Be sure to state your telephone number clearly and tell me when I can reach you.
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.

Topics for Test

- Find the arc length of a smooth curve.
- Solve problems involving the average value of a function.
- Solve spring and/or pumping problems involving the concept of work.
- Verify that a given function is a solution to a differential equation.
- Use a direction field to sketch the graph of a function satisfying a given initial condition.
- Sketch a direction field by hand.
- Match a differential equation to its direction field.
- Use the program EULERTBL to estimate the value of a function at a specified value if the function satisfies a given differential equation and initial condition.
- Use the program EULERGPH to sketch the solution to a given differential equation and initial condition.
- Solve separable differential equations.
- Solve problems involving applications of differential equations.

Suggested Review Problems

Chapter 6 Concept Check: p. 499/ 4, 5

Chapter 6 Exercises: p. 500/ 15, 16, 19

Chapter 7 Concept Check: p. 557/ 1, 2, 6

Chapter 7 True-False: p. 557/ 1, 2, 3

Chapter 7 Exercises: p. 577/ 1, 4, 5, 7, 8, 11, 12, 13, 14, 17