

Name:

Collaborator(s)<sup>1</sup>:

Math 213, Section F1, Prof. Hildebrand, Fall 2010  
Graded HW Assignment 10, due Friday, 12/3/2010

## Instructions

- **Use this sheet as cover sheet and staple it to the assignment.** Do the problems in order, and make sure that each problem is clearly labelled. Leave plenty of space for the problems. The assignment is due in class on the above date; late homework, or homework dropped off in mailboxes, will not be accepted. See the Course Information Sheet for the policy on “excused” homework. Work on the problems with another student or in a small group is fine and, indeed, encouraged, **provided** (i) you write up solutions yourself, using your own words, and (ii) you indicate the names of the student(s) you worked with on the cover sheet.
- **About this assignment:** This assignment covers the key definitions, concepts, and results from graph theory that you will need to know in the Final Exam. While many of the problems are phrased as simple yes/no questions (Does this graph have an Euler circuit?), an answer alone will not earn credit. **You must provide an appropriate explanation/justification for all your answers.**

## Problems (from Rosen, 6th Edition)

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|---------------------|-------------|
| 1. 9.2: 29(a)(b)(c) | 8. 9.5: 2   |
| 2. 9.2: 31(a)(b)(c) | 9. 9.5: 4   |
| 3. 9.3: 20          | 10. 9.5: 26 |
| 4. 9.3: 34          | 11. 9.5: 27 |
| 5. 9.3: 36          | 12. 9.7: 13 |
| 6. 9.3: 38          | 13. 9.7: 14 |
| 7. 9.3: 40          |             |

**Additional suggested problems (do not turn these in):** The following problems are easy warmup questions; do at least some of these to get familiar with the basic definitions and concepts. You can check your answers in the back of the book. Section 9.2: 1, 5, 7. Section 9.3: 5, 11, 19.

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<sup>1</sup>If you worked with another student or in a small group on this assignment, list the names of all students involved.