

Math 203: Contemporary Mathematics

Section 009, spring 2009

Homework assignment

Assigned Thursday, January 29

1. Section 6.1, problem 1.
2. Section 6.1, problem 6.
3. Section 6.1, problem 7.
4. Section 6.1, problem 10.
5. Section 6.1, problem 14.
6. Section 6.1, problem 26.
7. Section 6.2, problem 2.
8. There are seven towns in a certain county: Apple City, Brighton, Centerville, Denton, Eastwich, Fibonacci, and Greenburg. There are also three county roads between some of these towns. County Road 1 starts in Greenburg and travels through Denton and Brighton before ending in Fibonacci. County Road 2 begins in Apple City, goes through Centerville, Brighton, Eastwich, and Fibonacci in that order, and ends at Denton. County Road 3 starts in Fibonacci, goes through Greenburg and Apple City in that order, and ends in Denton. The county roads inspector needs to travel over every segment of every road, and he can only change from one road to another at one of the towns. Draw a graph representing this situation, and find an Eulerian circuit in the graph. Describe a possible route the inspector can take.

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