Final Exam

- Friday, August 2
- 12:00 a.m. to 1:50 p.m.
- In Lawson 151
- Comprehensive (covers entire course).
- Makes up 25% of your grade.

Grade information

- Hour Exams [45% of grade]
  - Posted in Desire2Learn.
- Lecture Participation & Quiz [15%]
  - Posted in Desire2Learn.
  - So far, three grades have been dropped.
  - Ultimately, 20% of grades will be dropped.
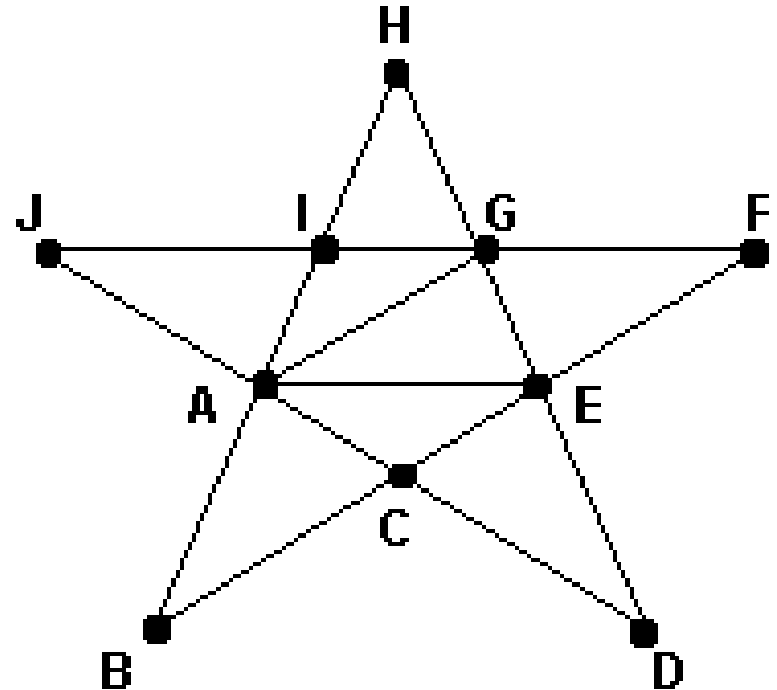
My Labs Plus

- "Homework" and "Practice Quizzes"
  - [15% of grade]
- No HW or Practice Quiz grades have been dropped yet, but 20% will be dropped.
- Some maintenance and adjustment of grades this week before any grades are dropped.
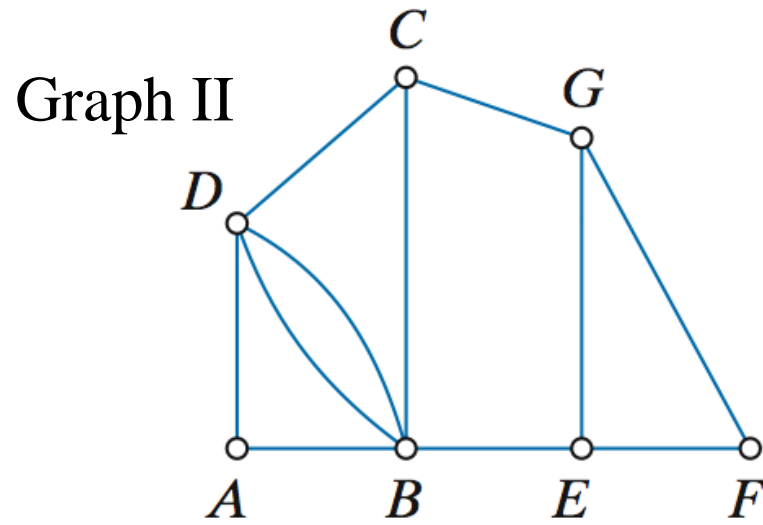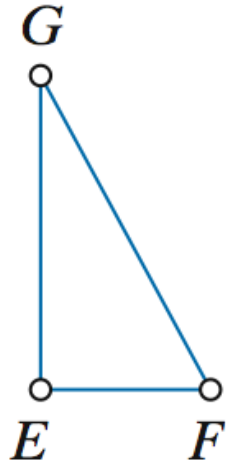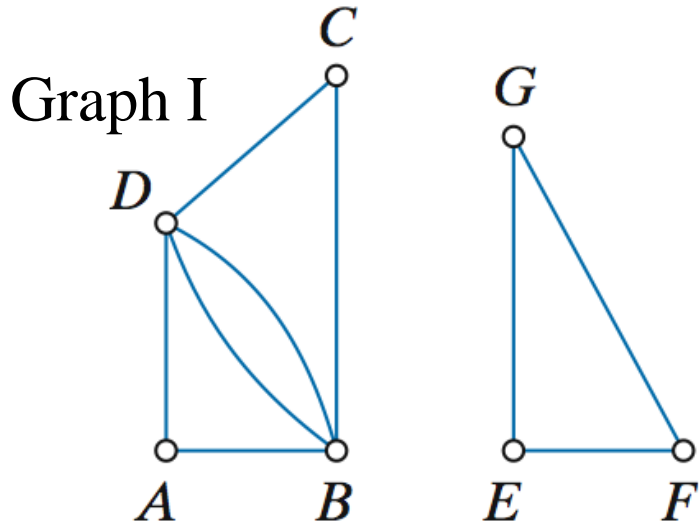
Current grade average

- Grade as of July 26 is given in D2L.

- Weighted average of three components.

- 75% of total grade (everything but final exam)

- Will change after dropping of low scores is completed.

1. Which vertices are adjacent to vertex J in the graph below?
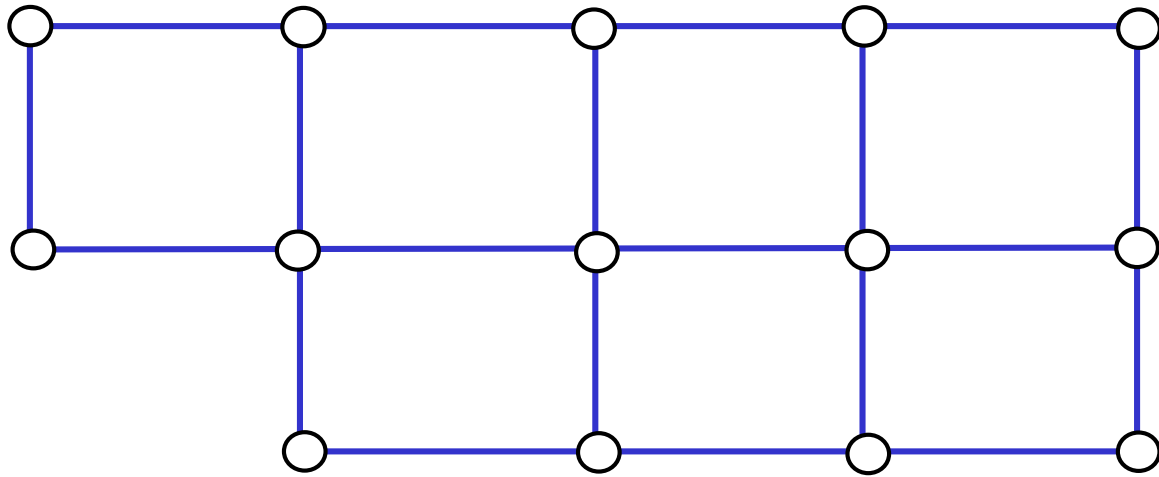

A) I, G, F, A, C, D

B) A, I

C) B, A, I, H

D) B, H

2. Which of the graphs below have an Euler circuit?

Graph I

Graph II

A)   Graph I only

B)   Graph II only

C)   Both Graph I and Graph II

D)   Neither Graph I nor Graph II

3. An optimal Eulerization of this graph can be
obtained by duplicating

A) 3 edges.   B) 4 edges.   C) 5 edges.   D) 6 edges.

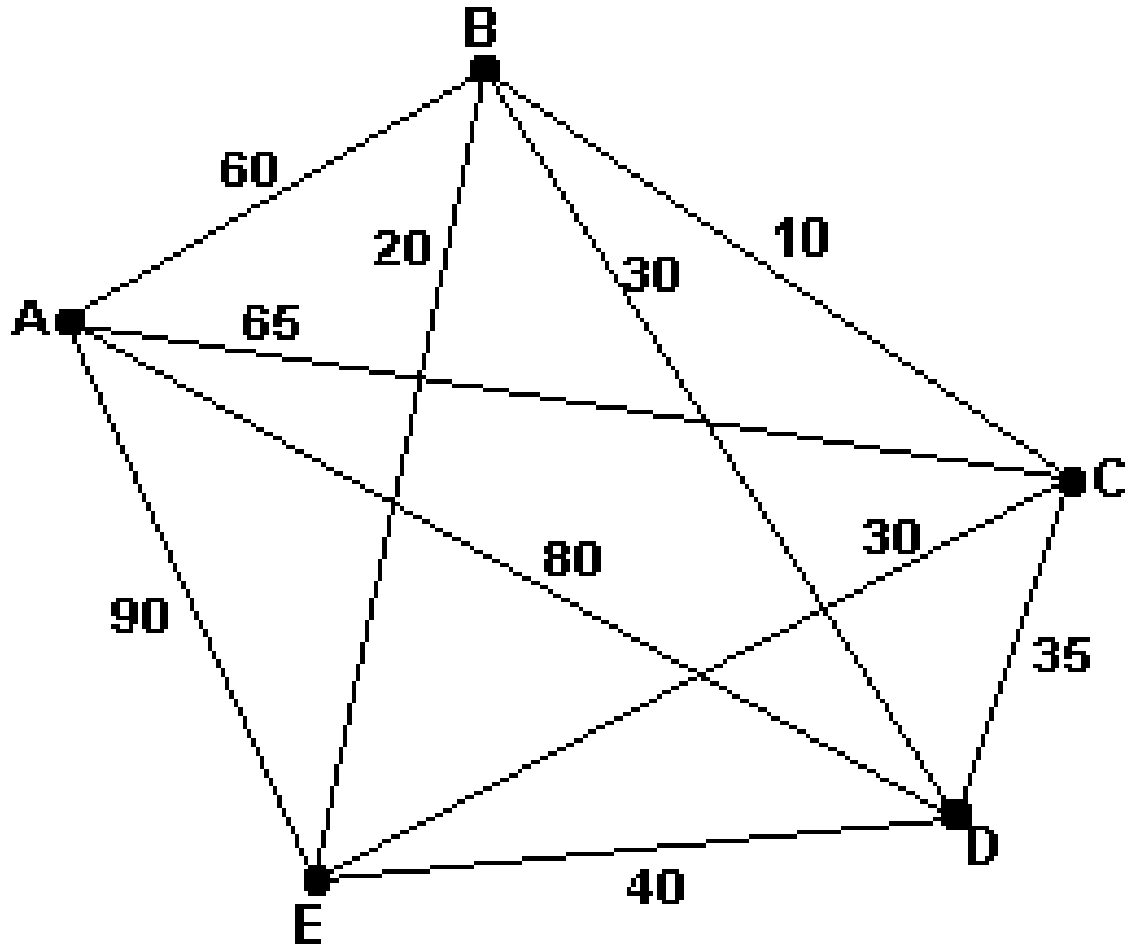4. The number of Hamilton circuits in K_7 is
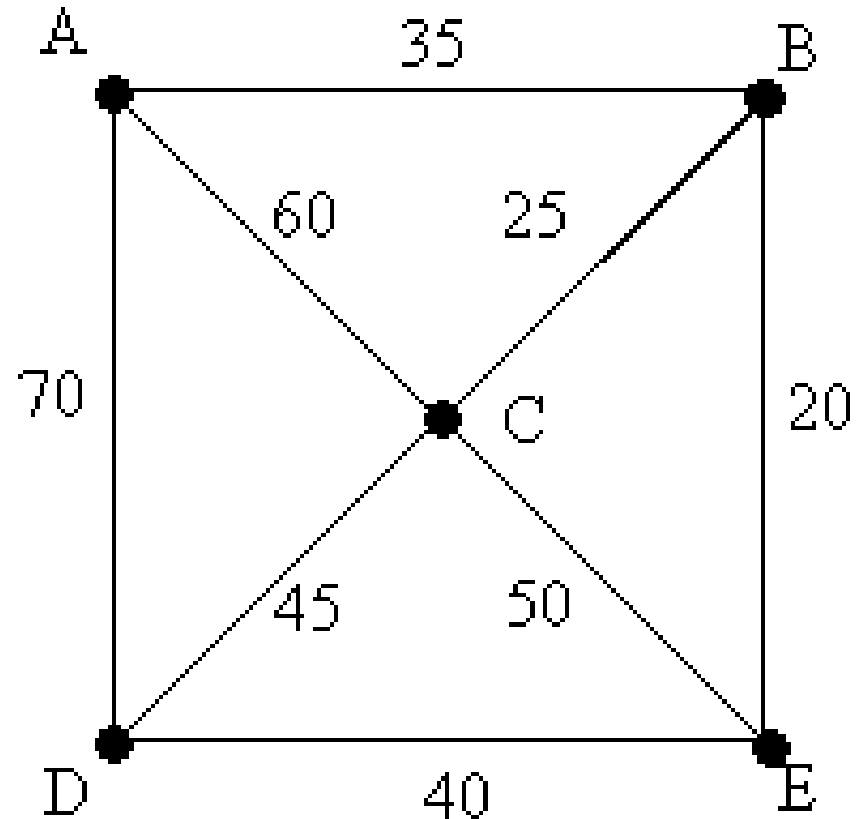
A) 21
B) 42
C) 120
D) 720

5. The cost of the cheapest-link tour is

A) 215
B) 220
C) 235
D) 295

6. The nearest-neighbor tour starting at A is given by

A) A,C,B,E,D,A
B) A,B,C,E,D,A
C) A,B,E,D,C,A
D) A,D,C,E,B,A

A — 35 — B
60 25
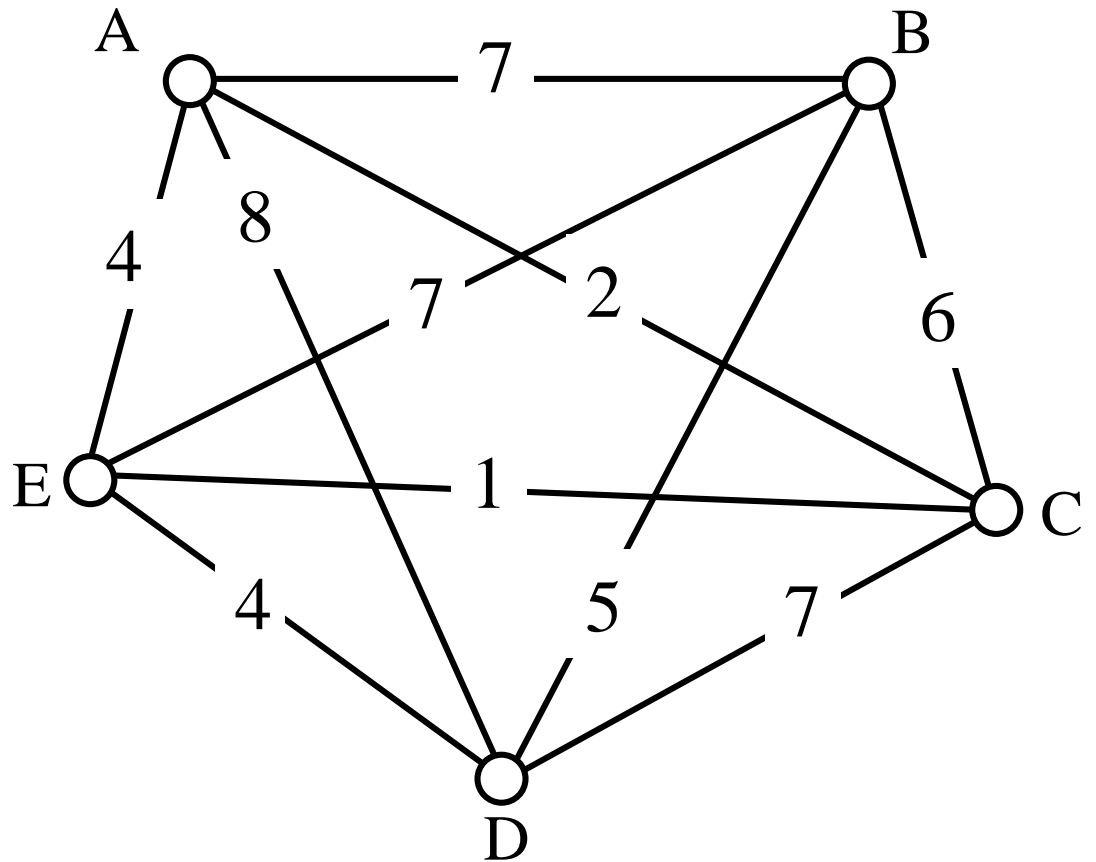70   C   20
45 50
D — 40 — E

7. Use Kruskal's algorithm to find the total cost of an MST.

A) 12

B) 13

C) 14

D) 19

8. Determine the check digit that should be appended to the ISBN 0-7167-6531.

   A) 4

   B) 5

   C) 6

   D) 7