Today: Synthesis and review. Approx. alg. for metric TSP.
Next class: Synthesis and review.
Reminders: Term projects. Posters.

1. List the members of your group below. Underline your name.

2. Depict a complete graph on the seven vertices `a`, `f`, `fk`, `m`, `o`, `p`, `pi` and with the following distances on edges.

```
(a f 53) (a fk 315) (a m 228) (a o 118) (a p 81) (a pi 292)
(f fk 303) (f m 266) (f o 147) (f p 100) (f pi 295)
(fk m 278) (fk o 238) (fk p 394) (fk pi 82)
(m o 121) (m p 292) (m pi 204)
(o p 195) (o pi 193)
(p pi 374)
```

3. Compute a *minimum-spanning tree* of the graph in Question 2 using a suitable algorithm. State the algorithm you use and trace its execution.

[additional space for answering the earlier question]

4. Use your solution to Question 3 to determine an approximate solution to the traveling salesman problem on the graph of Question 2.

5. Is the tour computed for Question 4 an optimal solution? Explain your answer briefly.