

02/25/09

Math 412

HW6

Due Wednesday, March 4, 2009

Solve five of the next six problems.

1. Interpret the numbers in the picture on the other side of this sheet as edge lengths. Use Dijkstra's Algorithm to find a shortest path from k to a . Draw a "shortest path tree" with root k .
2. # 3.1.10 in the book.
3. # 3.1.15 in the book.
4. # 3.1.21 in the book.
5. # 3.1.26 in the book.
6. # 3.1.31 in the book.

Problems below review basic concepts and their ideas could be used in the tests.

WARMUP PROBLEMS: Section 2.3: # 1, 2, 3, 4. Section 3.1: # 1, 2, 3, 4, 5.
Do not write these up!

OTHER INTERESTING PROBLEMS: Section 2.3: # 13, 14, 16, 20. Section 3.1: # 8, 9, 13, 16, 18, 19. Do not write these up!

