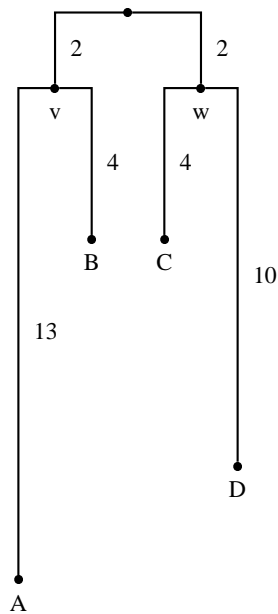


Math 592D. Homework 4. Due: 4/14/05

Work out Problems 1,2,3,4,5 or Problems 2,3,4,5,6.

1. Problem 4.5.20, page 167
2. Problem 5.1.6, pages 178–179
3. Problem 5.1.8
4. Problem 5.2.2, page 188
5. Problem 5.2.5
6. Consider the following tree with leaves $\{A, B, C, D\}$ and distances d_{ij} ($i, j = A, B, C, D$) as given by the edge numbers.



Compare this tree to the one constructed using the UPGMA method on the taxa $\{A, B, C, D\}$ with distances d_{ij} .