## Homework 7

Assigned on: Fri April 8, 2005.
Due: Fri Apr 15, 2005.
This is a pen-and-paper homework, to be returned in class
The whole homework is worth 80 points

1. Alpha-beta search.
(Total 10 points)
Consider the following game tree:

(a) Compute the minimax decision. Show your answer by writing the values at the appropriate nodes in the above tree. (Copy the tree in your homework.) (3 points)
(b) What move should Max choose?
(c) Using the alpha-beta pruning method, with standard left-to-right evaluation of nodes, show how the method operates on (a copy of) the tree and list the nodes are not examined by alpha-beta.

2. AIMA, Exercise 6.3, page 190.

20 points
3. AIMA, Exercise 7.5, page 237.

10 points
4. AIMA, Exercise 7.8, page 237: only c, d, e, and f.

10 points
5. AIMA, Exercise 7.11, page 238.

30 points

