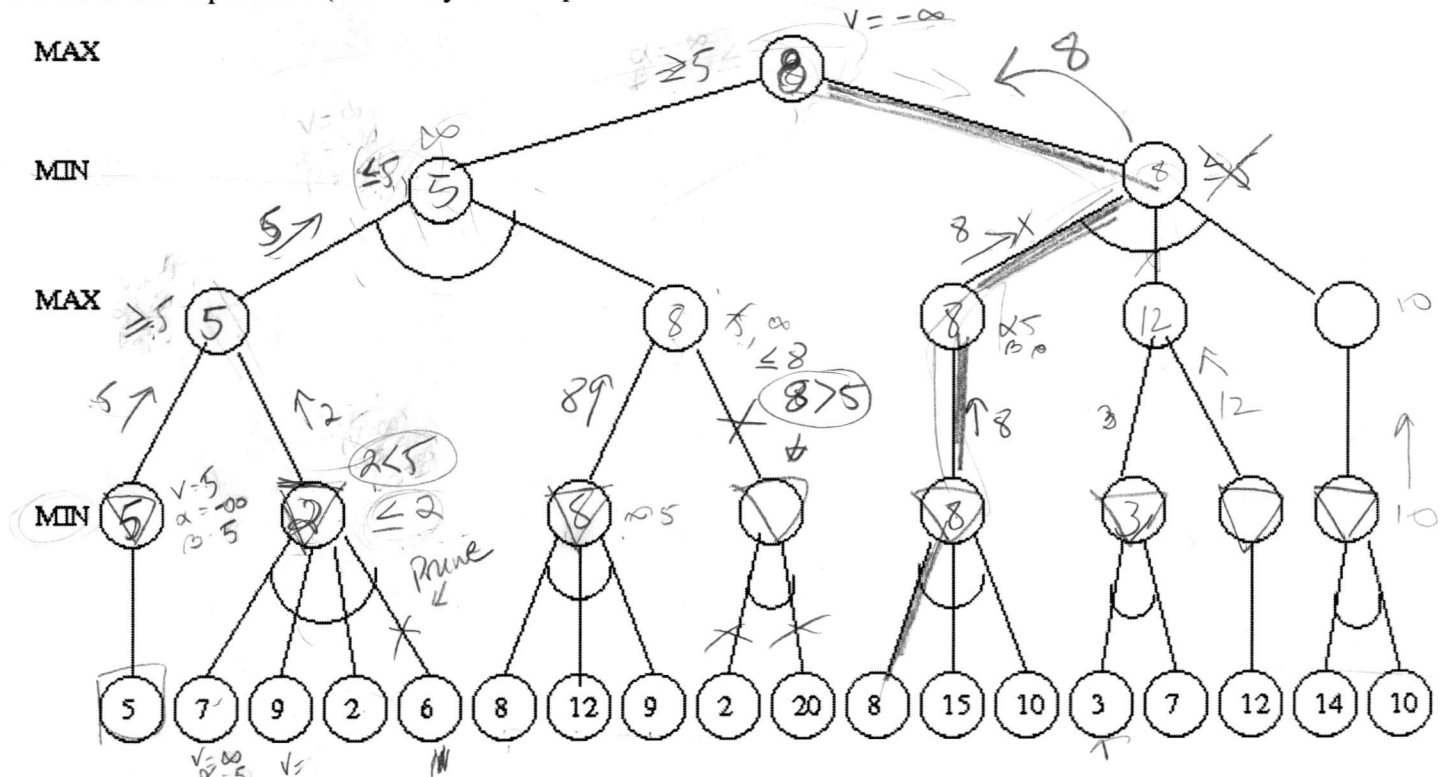# Problem Set 2

Assigned: Feb. 17.
Due: Mar. 3

Problem 1

Show the results of applying alpha-beta pruning to the following game tree. What is the best move for MAX at the top level? (You may do the problem on this sheet.)

Problem 2

Convert the following sentences in the propositional logic to clausal form.

```
(A V B) <=> (~C ^ D).
A V B V E
C V G.
~(D^E^G).
G => E.
```

Problem 3

Trace the action of the Davis-Putnam algorithm applied to the clauses in problem 2. Assume that, when the algorithm encounters a branch point, it selects the first atom in alphabetical order, and that it tries "TRUE" before "FALSE".