Worksheet 3: Minimax – answers
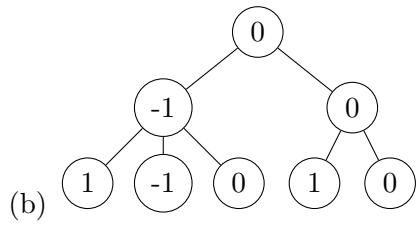
1. (a)

(b)

(c)

(d)
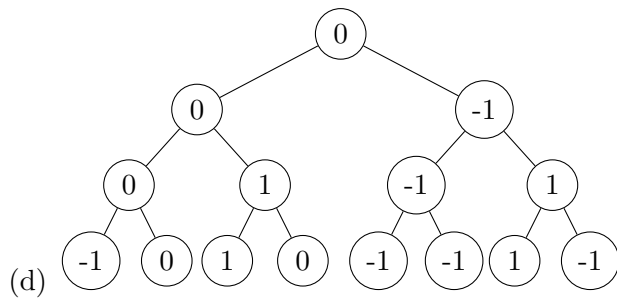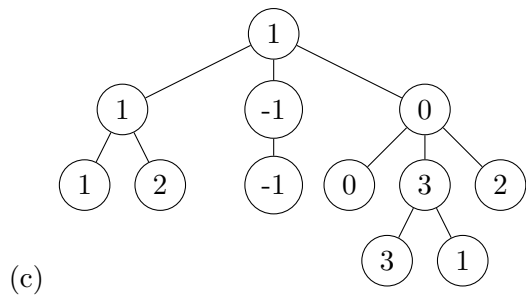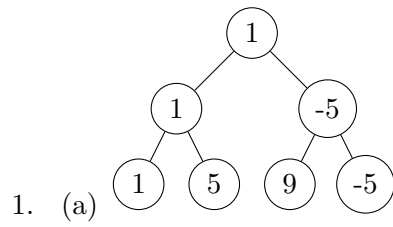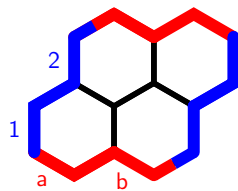
Conclusion: 1st player can force a win. (Red plays a2 or b1.)
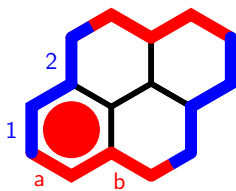
Symmetry with #2
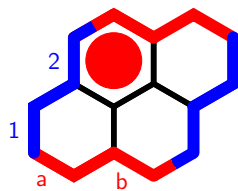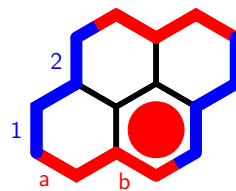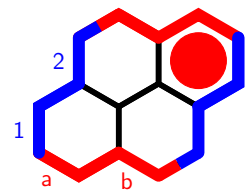
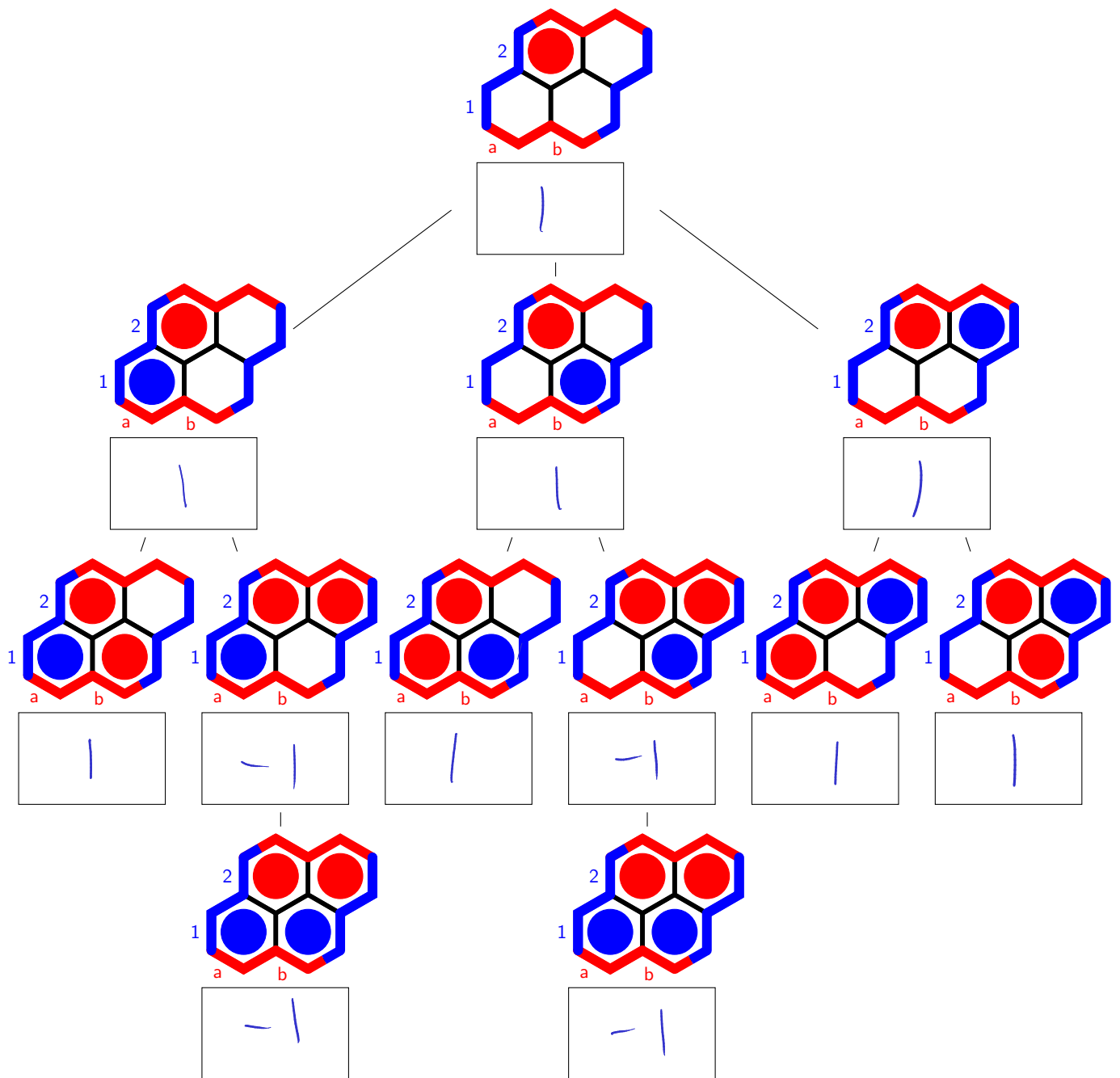Symmetry with #1

Subtree #1
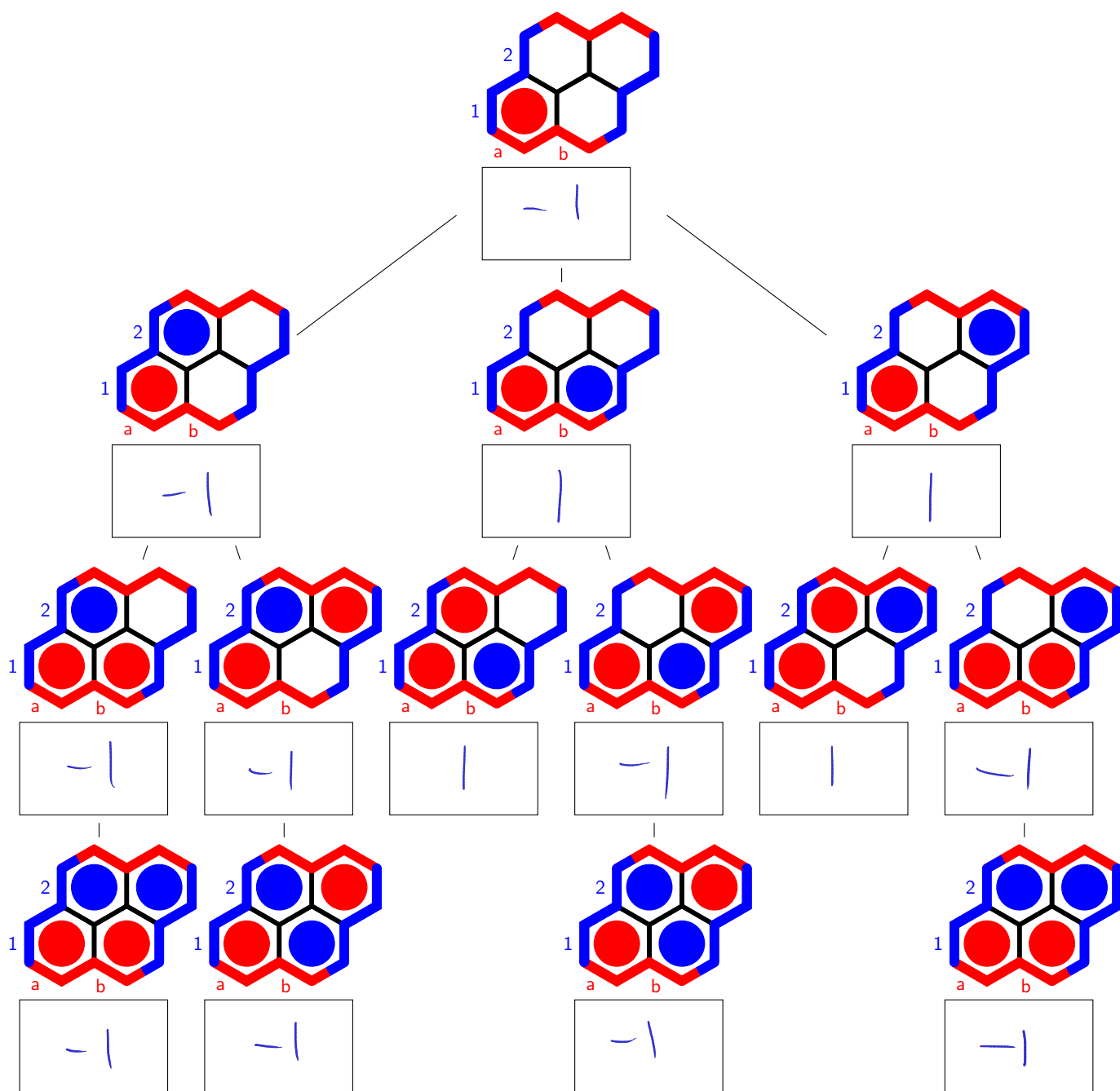
Subtree #2

3. Let the players be Blue and Red,
and let Blue be the maximising
player.

i.e   +1
      -1

-1
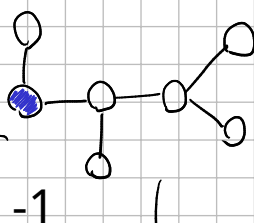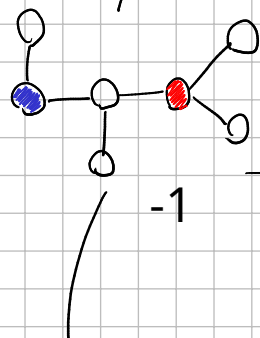
Since we have found a -1 move for red and scores are
either +1 or -1, it does not matter what scores the
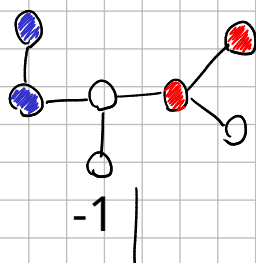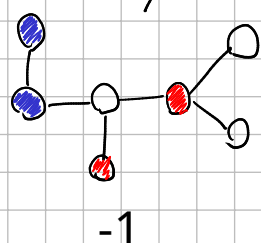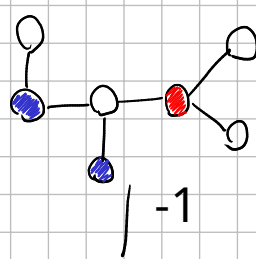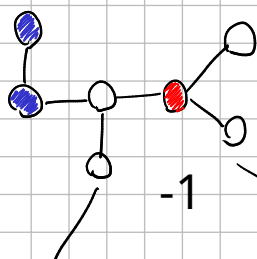other options have because red cannot do better.

-1

-1

-1

-1

-1

-1

-1

-1

-1

-1

-1
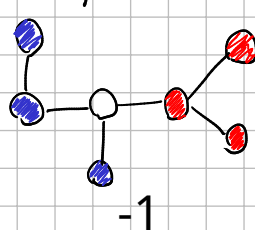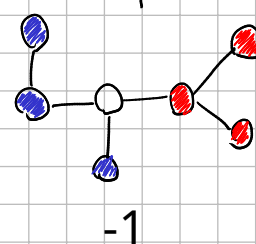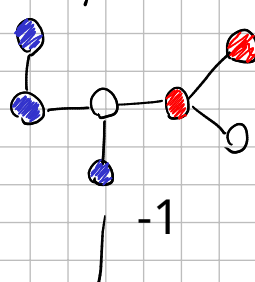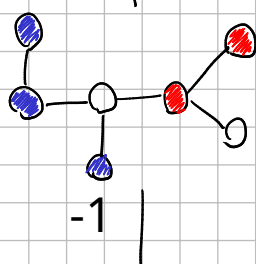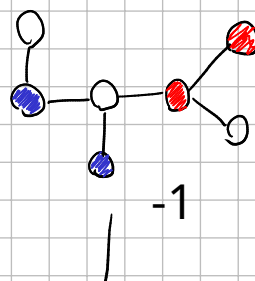
Conclusion: Red can force a win on the next move,