Question 1.

up to 12 or each color on the Possible states:

black squares of the board, Not possible

to have zero of both. ~ 500 Billion Billion

(internet source)

Initial state: Start board, the same as the image

on the lab (figure 1.1). Transition function! For the current player: Each piece,

+ If you can jump over the opponents piece, you have to improver it.

if not hing, can be moved diagonally forward 1 step if that spep is empty or two steps diagonally if The first step is vecupied by the opponents Picce. The oponents piece is removed if imped over. A piece can keep on jumping as long as it sumps over the opponents Piece. When a piece reaches the

top row, the piece becomes a "hing" and backwards diagonal movements and jumps become possible.

Question 2: for checkers: If a player can not make any moves due to being blocked or if one player dozent here any pieces left.

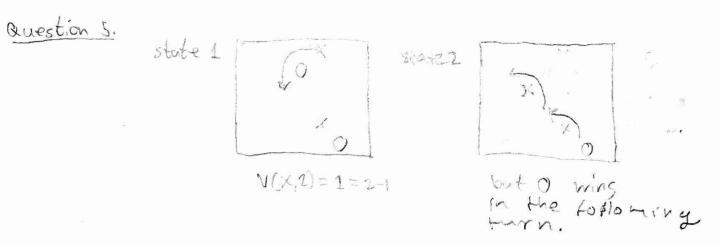
2: For tic tac toe: If a player have three in a line, horizontally, onest, on diagonally or vertically. Or is all squares are occupied.

Question 3:

1) Easy to compute, compared to all possible states

@ More pieces on the bourd is usually better.

Question 4: At the end of the game, when at least one player only have one piece left, land when in a state one step oway from terminating state.



Question 6: From one perspective it is better because it looks at forward steps but it might still be misleading since it assumes that the opponent plays randomly. The opponent might only be able to win in one future state, but that state could be just one step in the future.