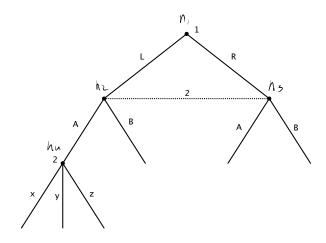
Activity: Extensive-Form Games Econ 305

Brandon Lehr

1 Characterizing an Extensive-Form Game



- a. Is this a game of perfect or imperfect information? Why? No. R2 but an information at $2 \sim 10^{-2} \, \rm cm^2$
- b. How many information sets does each player have in the above game?

 Plime Intermedia sets for 2 for 2 for use for 2 minutes sets 2 for 2/3 s, 20 use
- c. How many pure strategies does each player have in the above game? $\text{prod} \;\; \text{$\mathbb{Z}$}$

P226

2 Tic-Tac-Toe (Tadelis 7.3)

The extensive form representation of a game can be cumbersome even for very simple games. Consider the game of Tic-tac-toe where 2 players mark "X" or "O" in a 3×3 matrix. Player 1 moves first, then player 2, and so on. If a player gets three of his kind in a row, column, or one of the diagonals then he wins, and otherwise it is a tie. For this question assume that even after a winner is declared, the players $must\ completely$ fill the matrix before the game ends.

- a. Is this a game of perfect or imperfect information? Why?

 Poplar way player knows then such position in formation for the way there player
- b. How many information sets does player 2 have after player 1's first move? \bigwedge
- c. How many information sets does player 1 have after player 2's first move?