

MATH 102: IDEAS OF MATH

WORKSHEET 14

Player 1 begins by writing a sequence of X 's and O 's in the top row of the grid below. Player 2 then writes either an X or an O in the first box on the bottom. Player 1 then writes a sequence of X 's and O 's in the second row of the grid. Player 2 writes an X or O in the second bottom box. The players continue until all boxes are filled. Player 1 wins if the sequence on the bottom exactly matches any of the sequences Player 1 has written in the grid. Player 2 wins otherwise.

There is a grid below. Play the game a few times, then answer the following question: which player has a winning strategy, and why?

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