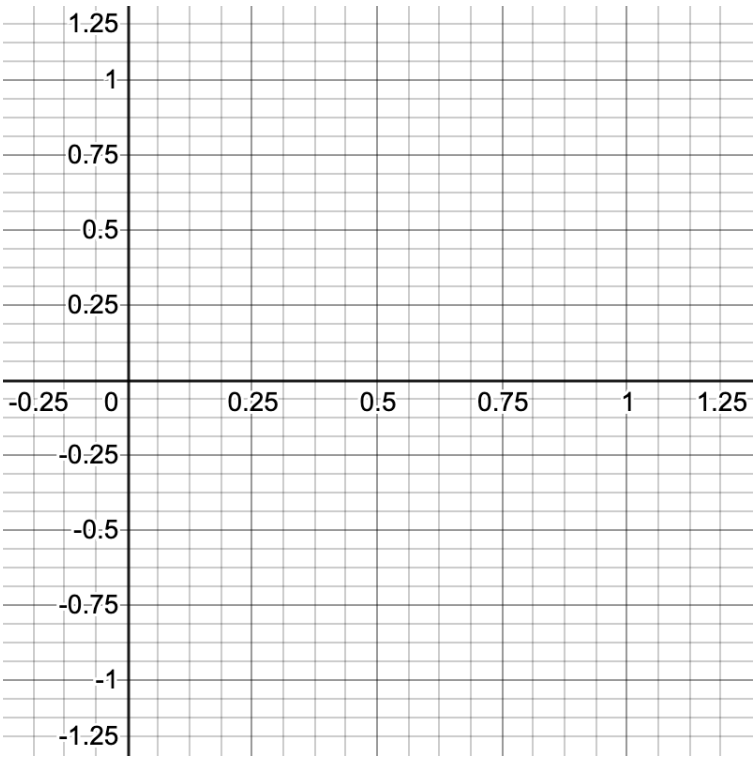
§14.2: Two-Person Constant-Sum Games: Mixed Strategies

1.] Two players, A and B, play the coin-tossing game. Each player, unbeknownst to the other chooses a head (H) or a tail (T). Both players would reveal their choices simultaneously. If they match (HH or TT), player A receives \$1 from B. Otherwise, A pays B. Set up the reward matrix for player A and find the value of the game by considering mixed strategies from each player.



2.] Consider the following game where player A has two strategies and player B has four strategies. The reward matrix is in terms of payoff to player A. Determine the value of the game and the strategies employed by each player that results in the optimal saddle point solution.

	B_1	B_2	B_3	B_4
A_1	2	2	3	-1
A_2	4	3	2	6