

Experiment 2 Postlab

Q1] What is the relationship between tic-tac-toe and magic square?

→ The relationship between the main (tic-tac-toe) group and the subgroup (magic square card game) is not isomorphic because the mapping of the subgroup into the main group is not bijective - It is 1-to-1 but not onto because the main group is huge and the subgroup is small. So the mapping is injective.

Q2] What is a magic square of order n ?

→ A magic square of order n is an arrangement of n^2 numbers, usually distinct integers, in a square, such that the n numbers in all rows, all columns and both diagonals sum to the same constant.