Irreducible Representations for Group of permutation of three objects

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Abstract

An irreducible representation of a group is a group representation that has no invariant subspaces. Here, I will discuss some of the basic theorems of representation theory and how they can be applied to reduce the reducible representation of a group to irreducible ones. I will define what is meant by class and character table of a group. In particular, I will construct all irreducible representations of a group of permutations of three objects using above theorems.

References

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