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Thesis Title:

Solving Equation in the General Dihedral Groups, General Quaternion Groups and Mathieu Groups M_{11}, M_{12}

Abstract

Many studies have been concerned to find the number of solutions of Frobenius equation $x^n = e$ in finite group, where e is identity and n is a positive integer. In the present

study, we found the number of solutions and solutions (if exists) of the equation $x^n = \alpha$, where α is a conjugate class in the general Dihedral group, general Quaternion group and Mathieu groups M_{11}, M_{12} .