A Characterization of the Trivial Central Units in Group Rings over Integers
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Abstract
One of the problems of the theory of the Group Rings is to determine the units of this ring. In 1940, Higman demonstrated an important theorem that classifies the group rings $ZG$ that have only trivial units. In this work, we presented a theorem proven for Jurgen Ritter and Sudarshan K. Sehgal that gives us necessary and sufficient conditions so that a group ring $ZG$ has only trivial central units. In the demonstration we will use, for example, results of the Theory of the Rings, Representation of Groups, Algebraic Integer and Order.

References