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IRREDUNDANCY IN GRAPHS AND VERTEX TRANSITIVITY

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Abstract

In this paper we prove that the irredundant number of a graph may decrease. Also we prove the necessary and sufficient condition under which this happens. We also prove that for any vertex transitive graphs with at least one edge either removal of every vertex decreases the irredundancy number or removal of every vertex does not change the irredundancy number.

Key Words : Irredundancy, ir - set, IR-set, Vertex Transitive graph. 2010 AMS Subject Classification : 05C99, 05C69, 05C07.

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