

## STUDY OF GRAPH ISOMORPHISM BY UTILIZING THE CONCEPT OF SPECIAL DEGREE OF A VERTEX IN A GRAPH

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### Abstract

In this paper the concept of special degree of the vertex of a graph is presented, and a theorem of isomorphism of two graphs is given using the concept of special degree, also a decidability algorithm of two graphs is implemented.

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*Key words*: special degree, graph isomorphism.

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