Turkish Journal of Mathematics

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The Basis Number of the Semi-Composition Product of Some Graphs I

M. M. M. JARADAT, E. A. RAWASHDEH,
M. Y. ALZOUBI
Department of Mathematics,
Yarmouk University,
Irbid-JORDAN
e-mail: mmjst4@yu.edu.jo,
e-mail: edris@yu.edu.jo,
e-mail: maref@yu.edu.jo

Abstract: The basis number of a graph G is defined to be the least integer d such that there is a basis $\mathcal{B}$ of the cycle space of G such that each edge of G is contained in at most d members of $\mathcal{B}$. We investigate the basis number of the semi-composition product of two paths and a cycle with a path.

Key Words: Basis number; cycle space; fold; semi-composition product