Title : The number of Homomorphisms from the Cartesian product of paths $P_n \times P_2$ to the path P_n

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Major : Mathematics

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ABSTRACT

Let G and H be graphs. A mapping f from the vertices of G to the vertices of H is called a homomorphism from G to H if, for every pair of adjacent vertices x and y in G, the vertices f(x) and f(y) are adjacent in H. Our work aims to determine the cardinalities of the homomorphisms from the Cartesian product of two paths to a path.

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