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Orientations and 3-colourings of graphs

Comment.Math.Univ.Carolinae 45,3 (2004) 549-553.

Abstract: We provide the list of all paths with at most 16 arcs with the property that if a graph G admits an orientation \vec{G} such that one of the paths in our list admits no homomorphism to \vec{G} , then G is 3-colourable.

Keywords: graph colourings, paths, Hasse-Gallai-Roy Theorem

AMS Subject Classification: 05C15