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Graphs with large distinguishing chromatic number

The distinguishing chromatic number  $\chi_D(G)$  of a graph G is the minimum number of colours required to properly colour the vertices of G so that the only automorphism of G that preserves colours is the identity. It is known that for a graph Gof order n, the bound  $1 \leq \chi_D(G) \leq n$  holds, with equality in the upper bound only for complete multipartite graphs. We discuss properties of graphs with large distinguishing chromatic number and characterize the graphs G of order n satisfying  $\chi_D(G) = n - 1$  or  $\chi_D(G) = n - 2$ .