

Bipartite density and bipartite ratio of triangle-free subcubic graphs

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Abstract

This talk shows that if G is a triangle-free graph of maximum degree 3 then G has an induced bipartite graph with $5|V(G)|/7$ vertices, with two exceptions: the Petersen graph and the dodecahedron. Also G has a spanning bipartite graph with $17|E(G)|/21$ edges with seven exceptional graphs.