

NOTE

SPANNING TREES WHOSE STEMS HAVE A BOUNDED NUMBER OF BRANCH VERTICES

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Abstract

Let T be a tree, a vertex of degree one and a vertex of degree at least three is called a leaf and a branch vertex, respectively. The set of leaves of T is denoted by $Leaf(T)$. The subtree $T - Leaf(T)$ of T is called the stem of T and denoted by $Stem(T)$. In this paper, we give two sufficient conditions for a connected graph to have a spanning tree whose stem has a bounded number of branch vertices, and these conditions are best possible.

Keywords: spanning tree, stem, branch vertex.

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