BLOCK GRAPHS WITH LARGE PAIRED DOMINATION MULTISUBDIVISION NUMBER

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Abstract

The paired domination multisubdivision number of a nonempty graph $G$, denoted by $msd_{pr}(G)$, is the smallest positive integer $k$ such that there exists an edge which must be subdivided $k$ times to increase the paired domination number of $G$. It is known that $msd_{pr}(G) \leq 4$ for all graphs $G$. We characterize block graphs with $msd_{pr}(G) = 4$.

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