



On the crossing number of the join of the discrete graph with one graph of order five

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Abstract. The crossing number $cr(G)$ of a graph G is the minimal number of edge crossings over all drawings of G in the plane. In the paper, we extend results of the exact values of crossing numbers for join of graphs of order five. We give the crossing number of the join product $G + D_n$, where the graph G consists of one 4-cycle and one isolated vertex, and D_n consists on n isolated vertices.

Keywords: graph, drawing, crossing number, join product

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