

## The crossing numbers of products of the graph $K_{2,2,2}$ with stars

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### ABSTRACT.

There are several known exact results on the crossing numbers of Cartesian products of stars and graphs of order four or five. In the paper, we extend these results and we prove that the crossing number of the Cartesian product of the complete tripartite graph  $K_{2,2,2}$  with the star  $S_n$  is  $6\lfloor \frac{n}{2} \rfloor \lfloor \frac{n-1}{2} \rfloor + 6n$ .

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