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**A result on Vizing's conjecture.** (English) Zbl 1030.05087  
Discrete Math. 275, No. 1-3, 363-366 (2004).

Summary: Let  $\gamma(G)$  denote the domination number of a simple graph  $G$  and let  $G \square H$  denote the Cartesian product of two simple graphs  $G$  and  $H$ . We prove that if  $\gamma(G) = 3$ , then  $\gamma(G \square H) \geq \gamma(G)\gamma(H)$ .

**MSC:**

**05C69** Vertex subsets with special properties (dominating sets, independent sets, cliques, etc.) Cited in 10 Documents

**Keywords:**

Graph; Domination number; Cartesian product

**Full Text:** [DOI](#)

**References:**

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- [2] Brešar, B., On Vizing's conjecture, Discuss. math. graph theory, 21, 5-11, (2001) · [Zbl 0989.05084](#)
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- [4] Vizing, V.G., The Cartesian product of graphs, Vychisl. sistemy, 9, 30-43, (1963) · [Zbl 0931.05033](#)

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