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Note

A SHORT PROOF FOR A LOWER BOUND ON THE ZERO FORCING NUMBER

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Abstract

We provide a short proof of a conjecture of Davila and Kenter concerning a lower bound on the zero forcing number $Z(G)$ of a graph G. More specifically, we show that $Z(G) \geq (g-2)(\delta-2)+2$ for every graph G of girth g at least 3 and minimum degree δ at least 2.

Keywords: zero forcing, girth, Moore bound.

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