

The Ramsey numbers of large cycles versus even wheels

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ABSTRACT

For given graphs G and H , the *Ramsey number* $R(G;H)$ is the smallest positive integer N such that for every graph F of order N the following holds: either F contains G as a subgraph or the complement of F contains H as a subgraph. In this paper, we show that the Ramsey number $R(C_n, W_m) = 2n - 1$ for even m and $n \geq \frac{5m}{2} - 1$.

Keywords: *Ramsey number, cycle, wheel.*

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