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On the difference between consecutive Ramsey numbers. (In English)

Util. Math. 35, 115-118 (1989). [0315-3681]

In this paper the authors prove two inequalities for classical Ramsey numbers:

1) $r(m, n) \geq r(m, n - 1) + 2m - 3,$

2) $r(m, n) \geq r(m, n - k) + r(m, k + 1) - 1,$ for $1 \leq k \leq n - 2.$

These results are then used to compute some generalized Ramsey numbers for pairs of graphs.

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Classification:

05C55 Generalized Ramsey theory

Keywords:

inequalities; classical Ramsey numbers