

ANOTHER VIEW OF BIPARTITE RAMSEY NUMBERS

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Abstract

For bipartite graphs F and H and a positive integer s , the s -bipartite Ramsey number $BR_s(F, H)$ of F and H is the smallest integer t with $t \geq s$ such that every red-blue coloring of $K_{s,t}$ results in a red F or a blue H . We evaluate this number for all positive integers s when $F = K_{2,2}$ and $H \in \{K_{2,3}, K_{3,3}\}$.

Keywords: Ramsey number, bipartite Ramsey number, s -bipartite Ramsey number.

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