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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References


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