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## LOWER BOUNDS FOR SOME RAMSEY NUMBERS

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For the Ramsey number  $R(p_1, \dots, p_r)$ ,  $r \geq 2$ , we prove that

$$R(p_1, \dots, p_r) > (R(p_1, \dots, p_s) - 1)(R(p_{s+1}, \dots, p_r) - 1),$$

$s \in \{1, \dots, r-1\}$ . This inequality generalizes a result obtained by Robertson (Theorem 1) and improves the lower bounds for some Ramsey numbers.

**Keywords:** Ramsey numbers

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