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Inequalities on Linear Functions and Circular Powers

Abstract: We prove some inequalities such as

$$F(x_1^{x_{\sigma(1)}}, \ldots, x_n^{x_{\sigma(n)}}) \leq F(x_1^{x_1}, \ldots, x_n^{x_n}),$$

where F is a linear function or a linear function in logarithms and σ is a permutation, which is a product of disjoint translation cycles. Stronger inequalities are proved for second-order recurrence sequences, generalizing those of Diaz.

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