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Inequalities for a Sum of Exponential Functions

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Abstract: We generalize the result $\min_{x>0} \frac{e^{\tau x}}{x} = \tau e$, ($\tau > 0$), to a function in which the numerator is the sum $\sum_{i=1}^n p_i e^{\tau_i x}$. Upper and lower estimates are close to the exact result when $\frac{\min_{1 \leq i \leq n} \tau_i}{\max_{1 \leq i \leq n} \tau_i}$ is not far from unity. Computational results are given to verify the main results.



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