



## Documents

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### **Inequalities for a sum of exponential functions**

(2004) *Journal of Inequalities in Pure and Applied Mathematics*, 5 (4), art. no. 107, pp. 1-4.

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### **Abstract**

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

### **Author Keywords**

Delay equation; Exponential functions; Inequality

**Document Type:** Article

**Source:** Scopus

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