Problems and Solutions

Albert Natian, Section Editor

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This section of the Journal offers readers an opportunity to exchange interesting mathematical problems and solutions. Please email them to Prof. Albert Natian at Department of Mathematics, Los Angeles Valley College. Please present all proposed solutions and proposed problems according to formatting requirements delineated near the end of this document. Also, please make sure every proposed problem or proposed solution is provided in both ***LaTeX*** and pdf documents. *Thank you!*

To propose problems, email them to: problems4ssma@gmail.com

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Solutions to previously published problems can be seen at <www.ssma.org/publications>.

Solutions to the problems published in this issue should be submitted *before* June 1, 2024.

• **5769** *Proposed by Ángel Plaza, Universidad de Las Palmas de Gran Canaria, Spain.*

Evaluate the limit $L = \lim_{n\to+\infty} n\, x_n$ where

$$x_n := \frac{\sin\frac{1}{n}}{\sin\frac{1}{n^2}} - n.$$

• **5770** *Proposed by Daniel Sitaru, National Economic College "Theodor Costescu" Drobeta Turnu - Severin, Romania.*

Suppose $a, b \in \mathbb{C}$ with $|a^2 + 1| \leqslant 1$, $|a^4 + 1| \leqslant 1$, $|b^3 + 1| \leqslant 1$, $|b^6 + 1| \leqslant 1$. Prove that

$$|a + b|^2 + |a - b|^2 \leqslant 4$$

• **5771** *Proposed by Goran Conar, Varaždin, Croatia.*

Suppose $x_1, x_2, \ldots, x_n \geqslant e$. Prove

$$\frac{n}{7} > \sum_{j=1}^{n} \frac{x_j}{1 + x_j^5} > \frac{n}{2}\left(\prod_{j=1}^{n} x_j\right)^{-2/n}.$$

• **5772** *Proposed by by Ovidiu Furdui and Alina Sîntămărian, Technical University of Cluj-Napoca, Cluj-Napoca, Romania.*

For the matrix A in $\mathcal{M}_2(\mathbb{R})$, solve the equation $A^3 = A - A^T$, where A^T denotes the transpose of A.

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