

Problem 6 (due on Monday, November 21)

Prove that the inequality
$$\prod_{i=1}^n \prod_{j=1}^n (1 + |a_i + a_j|) \geq \prod_{i=1}^n \prod_{j=1}^n (1 + |a_i - a_j|)$$
 holds for any real numbers a_1, \dots, a_n .

We have not received any solutions. For a detailed solution and some related problems see the following link [Solution](#).

From:

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