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Problem 6 (due on Monday, November 21)

Prove that the inequality \[ \prod_{i=1}^n\prod_{j=1}^n\left(1+|a_i+a_j|\right)\geq

\prod_{i=1}^n\prod_{j=1}^n\left(1+|a_i-a_j|\right)\] holds for any real numbers

a_1, dots, a_n.
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We have not received any solutions. For a detailed solution and some related problems see the following link Solution.

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Permanent link: https://www2.math.binghamton.edu/p/pow/problem6f22

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