

Problem 5 (due on Monday, November 4).

Let $\{a_n = \sqrt{n^2 \prod_{i=1}^n \prod_{j=1}^n \gcd(i,j)}\}$, where $\gcd(i,j)$ is the greatest common divisor of i and j . Prove that the sequence a_n converges.

The problem was solved by Prof. Vladislav Kargin and Dr. Mathew Wolak (who submitted two solutions). The submitted solutions are similar to our two in-house solutions. For details see the following link [Solution](#).

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