Bilkent University
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PROBLEM OF THE MONTH

Term: March 2007

Suppose that $A_1, A_2, \ldots, A_n$ are points on the plane located in such a way that for any point P on the same plane at least one of the distances $dist(P, A_i)$, $i = 1, 2, \ldots, n$ is irrational. Find the minimal possible value of n.