

Problem 4 (due Monday, March 30)

Let $n > 0$ be an odd integer. Prove that there exists a set $S = \{A_1, \dots, A_{2n}\}$ of $2n$ distinct points in the plane which are not collinear and such that if $i + j \neq 2n + 1$ then the line $A_i A_j$ contains a third point from S .

We did not receive any solutions. For a detailed solution see the following link [Solution](#).

From:

<http://www2.math.binghamton.edu/> - **Department of Mathematics and Statistics, Binghamton University**

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<http://www2.math.binghamton.edu/p/pow/problem4s26>

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