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Disjoint edges in geometric graphs. (In English)

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Answering an old question in combinatorial geometry, we show that any configuration consisting of a set V of n points in general position in the plane and a set of $6n - 5$ closed straight line segments whose endpoints lie in V , contains three pairwise disjoint line segments.

Classification:

05C35 Extremal problems (graph theory)

Keywords:

combinatorial geometry; configuration; three pairwise disjoint line segments