

# THE ERDŐS-SZEKERES THEOREM AND RELATED RESULTS.

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The theorem of Erdős and Szekeres is one of the most known in combinatorial geometry. Let  $A$  be a set of points in the plane. We say that the points are in general position if no three are on a line. The points are in convex position if they are the vertex set of a convex polygon. The theorem of Erdős and Szekeres says that for any integer  $n$  there is a least integer  $f(n)$  such that any set of at least  $f(n)$  points in general position in the plane contains  $n$  points in convex position. There are several modifications and generalizations of this beautiful result.

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