

## Convex Hull

**Graham Scan: Analysis** 

- Planarity

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- ❖ Note that
  - edges examined by GS never intersect and hence
  - they form a planar graph
- ❖ By Euler's formula
  - a planar graph with n vertices has O(3n) edges
- ❖ It's implied that
  Graham scan needs 𝒪(n) time
- ❖ More precisely ...

