Carlos Segarra Thursday, September 26th

Discrete and Algorithmic Geometry: Problems 4 and 5

4. Propose an algorithm that, given a point p external to a convex polygon $\mathcal{P}$, finds the point of $\mathcal{P}$ closest to p. What happens if instead of finding the closest point we look for the farthest? What if we restrict the search to the vertices of $\mathcal{P}$?

Before starting with the proof, let us make two remarks:

Remark 1. *Je*

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5. Propose an algorithm that, given two disjoitn convex polygons, $\mathcal{P}$ and $\mathcal{Q}$, finds the closest pair of points $p \in \mathcal{P}$ and $q \in \mathcal{Q}$.