

Class work: Voronoi Diagrams

1. Draw the Voronoi diagram for a set of 2, 3 and 4 points.
2. Draw the Voronoi diagram for a set of 3 collinear points.
3. Show a set of n points where a vertex in $\text{Vor}(P)$ has degree n .
4. Show a set of n points such that its Voronoi diagram contains a region with $n - 1$ edges.

5. Consider two points a and b in the plane and a point p on the segment ab . Denote by $f(p)$ the minimum distance of p to one of a, b : $f(p) = \min\{d(p, a), d(p, b)\}$. At what point p is $f(p)$ maximum?

What point inside a triangle maximizes the minimum distance to one of its vertices?

6. Show the medial axis for a rectangle.