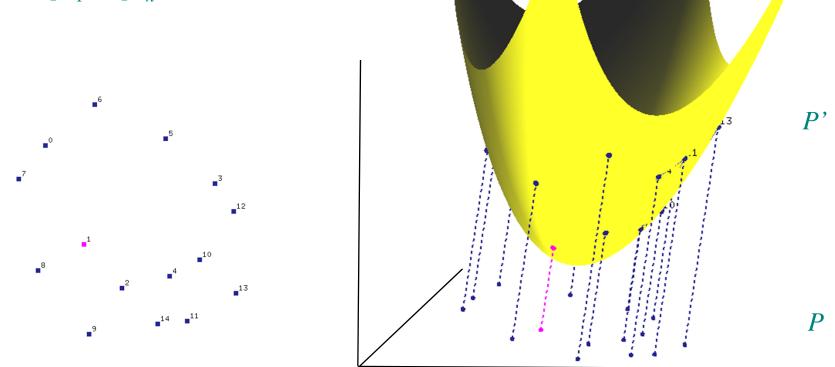
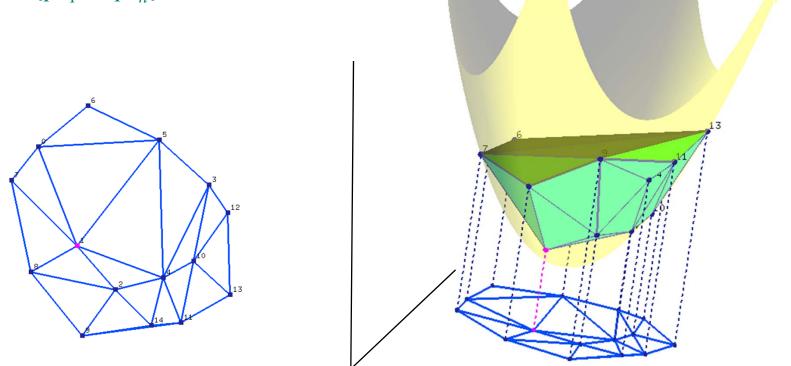
**Theorem:** Let  $P = \{p_1, \dots, p_n\}$  with  $p_i = (a_i, b_i, 0)$ . Let  $p'_i = (a_i, b_i, a^2_i + b^2_i)$  be the vertical projection of each point  $p_i$  onto the paraboloid  $z = x^2 + y^2$ . Then DT(P) is the orthogonal projection onto the plane z=0 of the lower convex hull of  $P' = \{p'_1, \dots, p'_n\}$ .



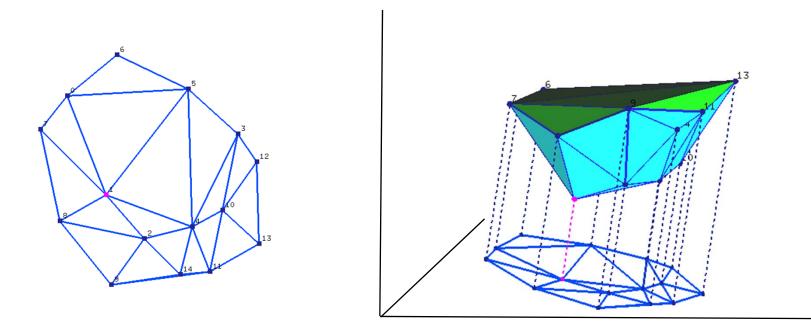
Pictures generated with Hull2VD tool available at http://www.cs.mtu.edu/~shene/NSF-2/DM2-BETA

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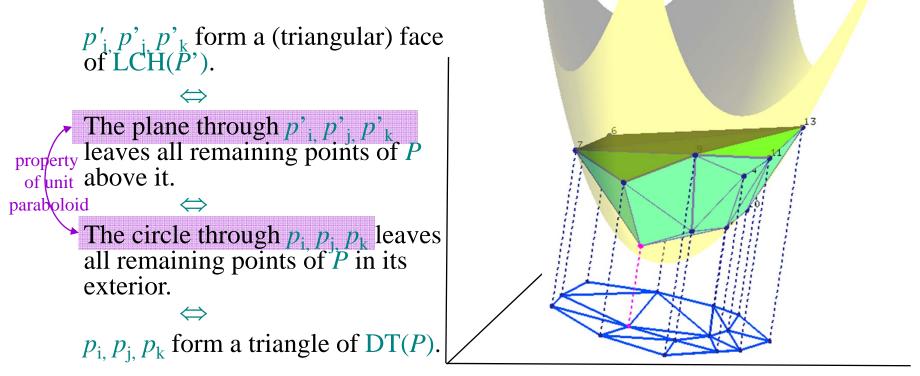
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Slide adapted from slides by Vera Sacristan.