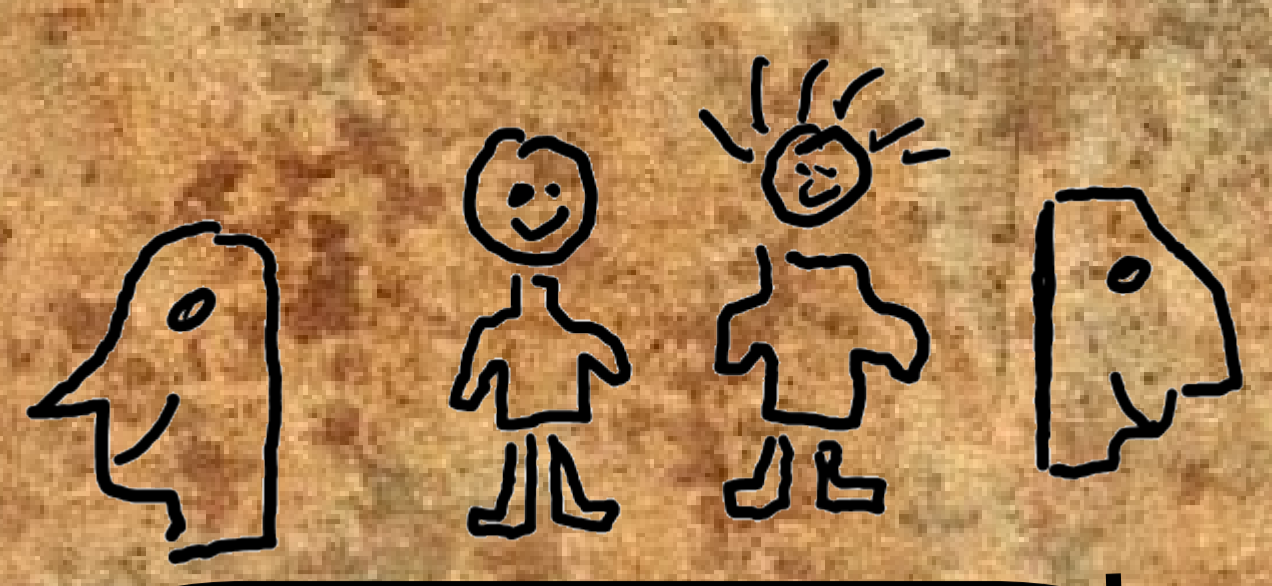


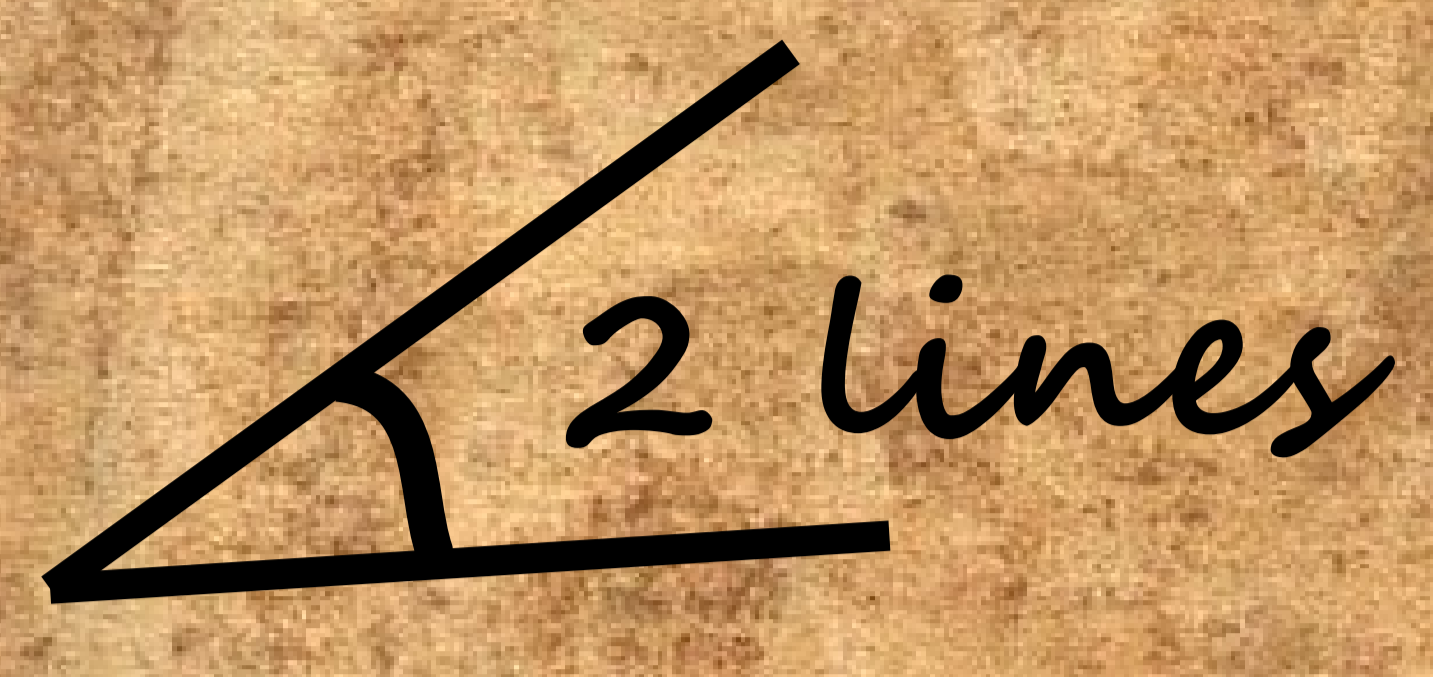
# The shape of dune



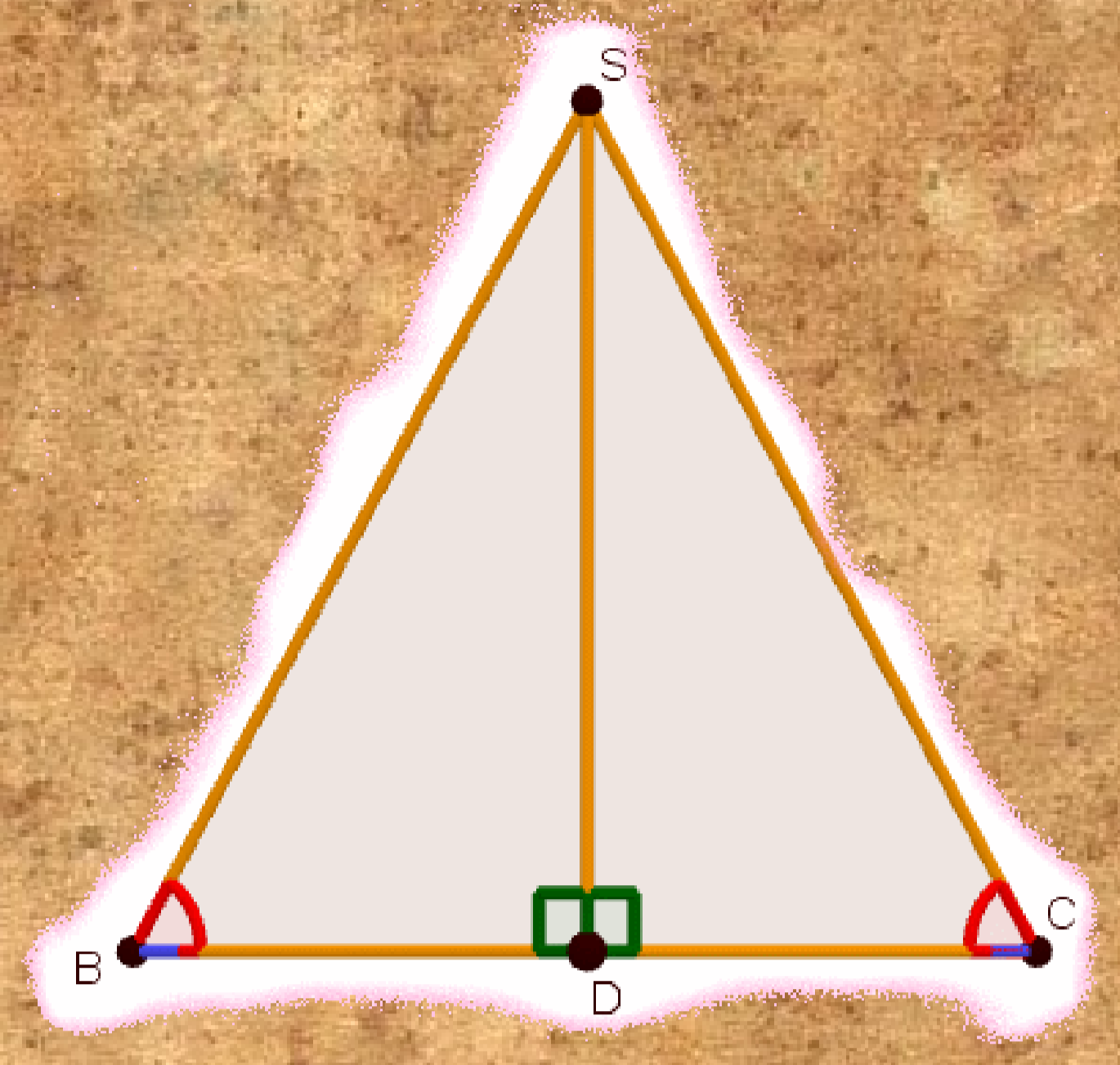
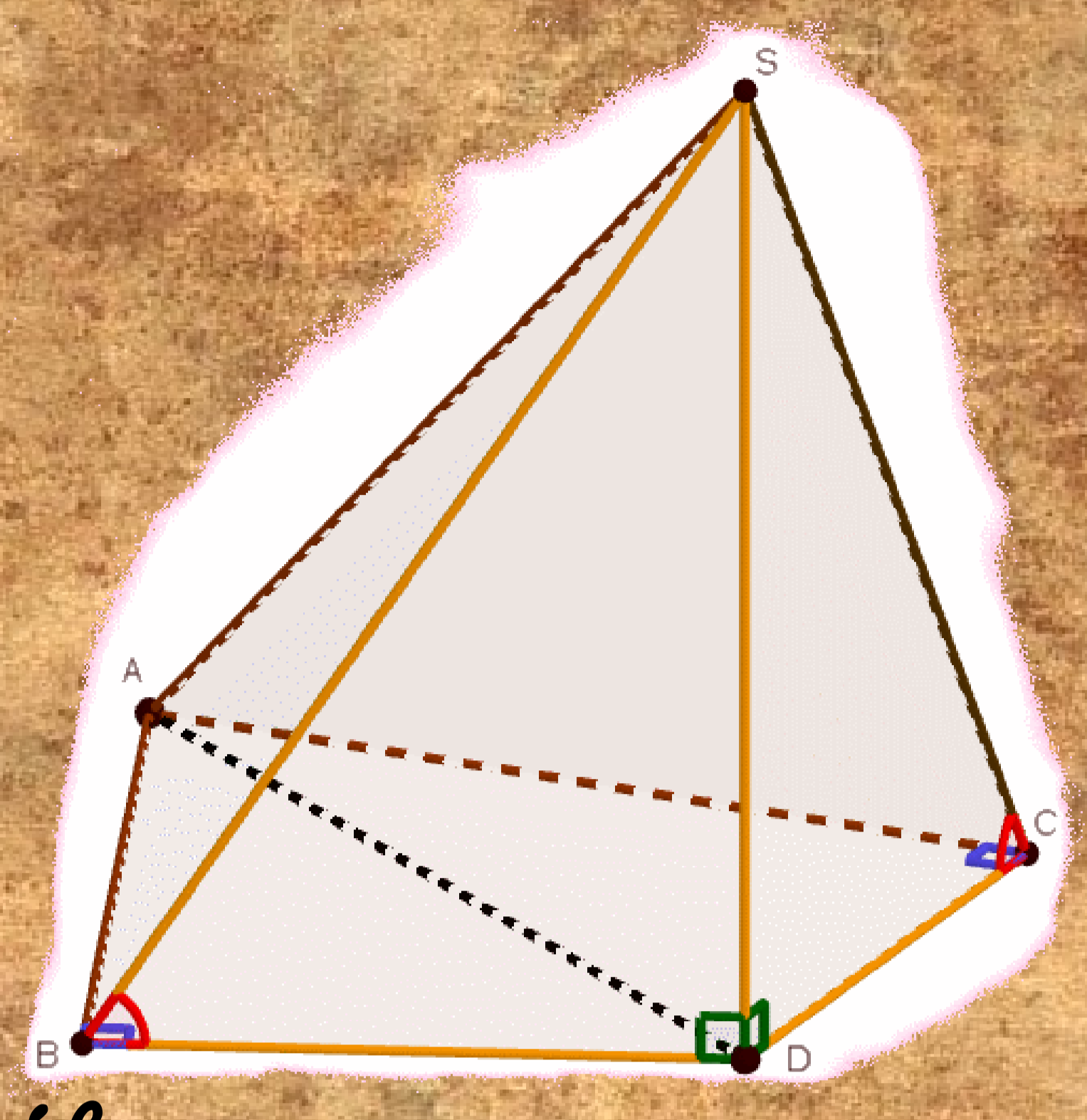
Alice, Lili, Saraa & Samuel



Val de Durance highschool, Pertuis

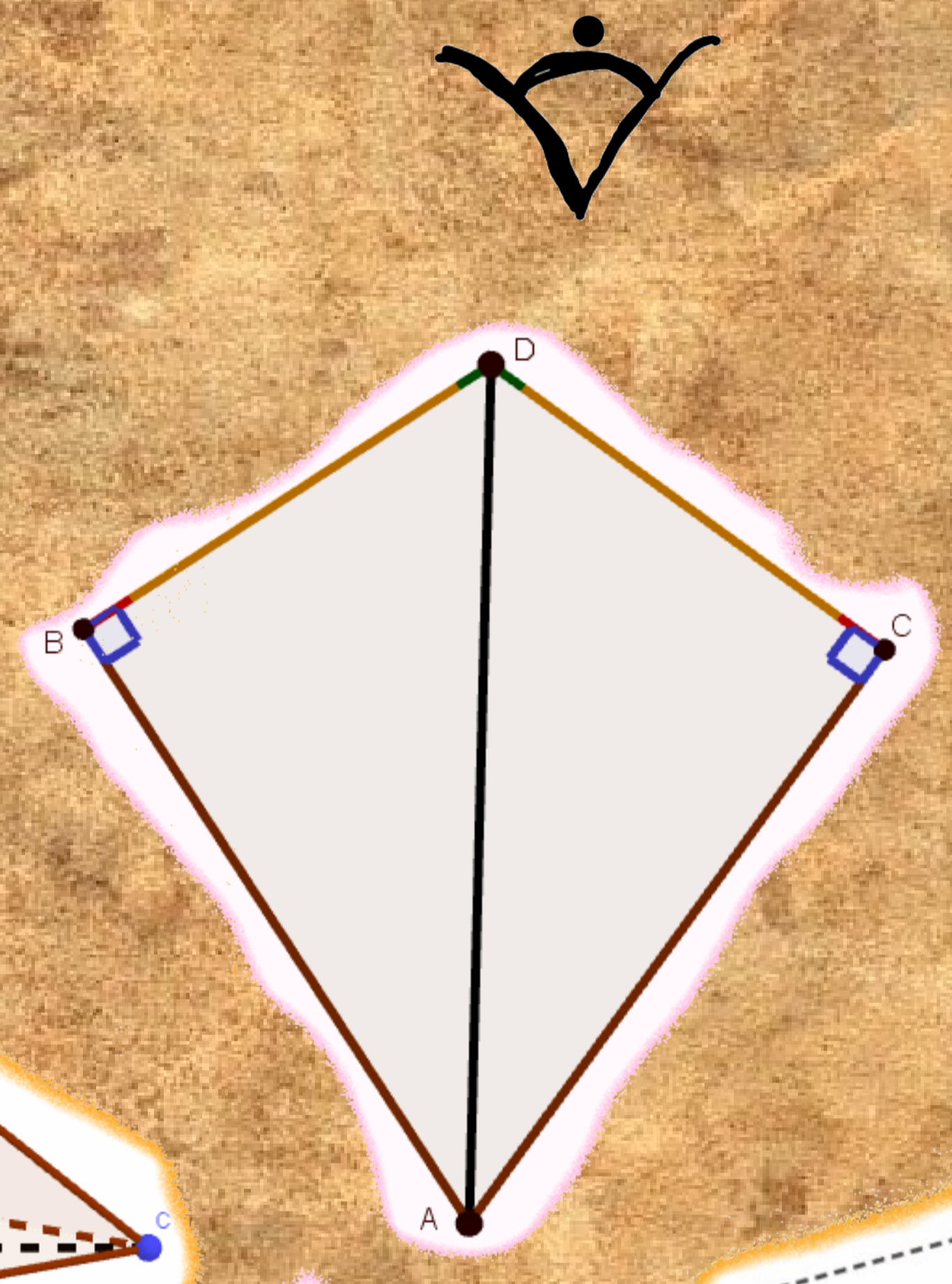
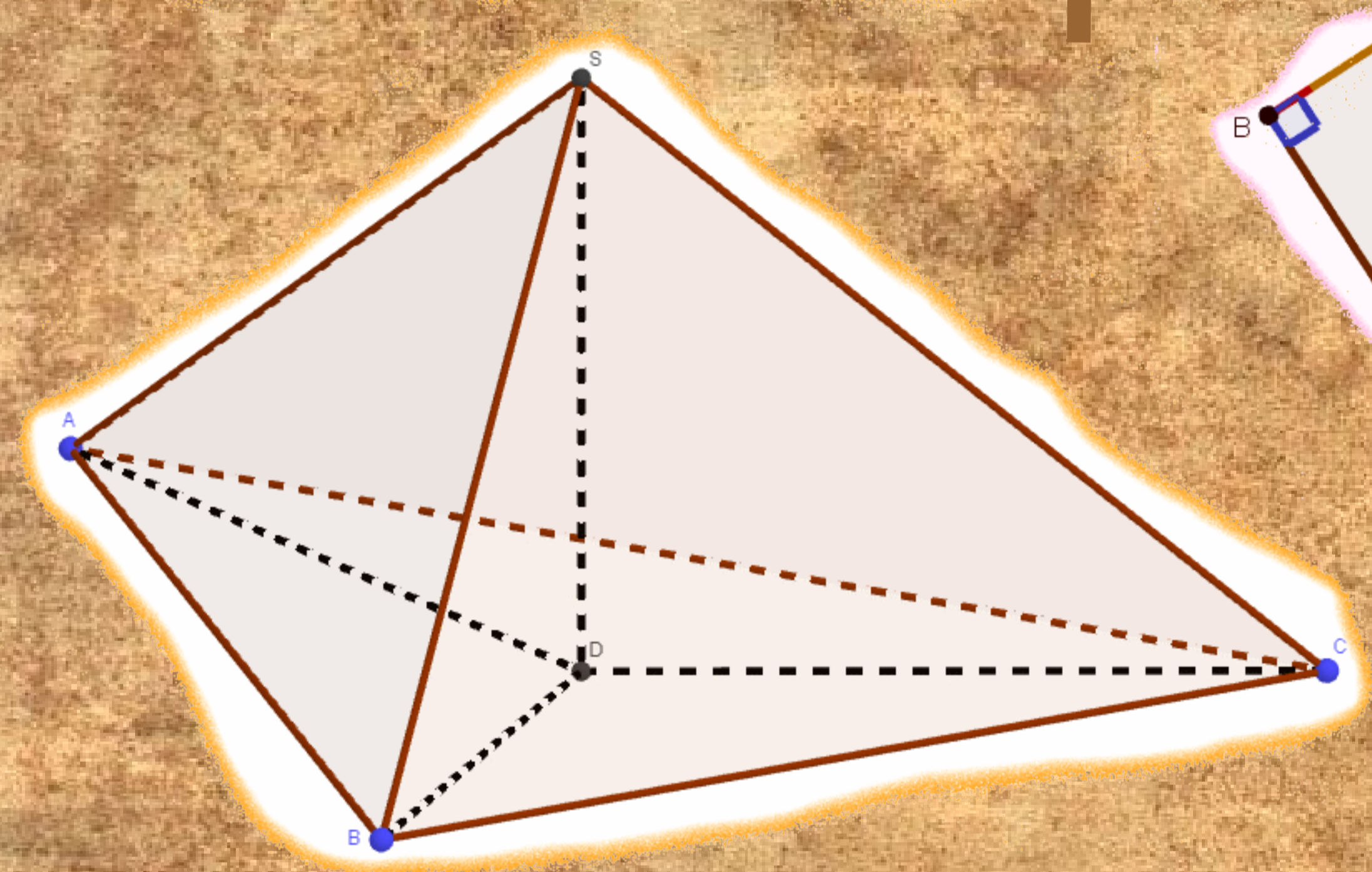


S is a point on a edge.  
D is the orthogonal projection of S on the base



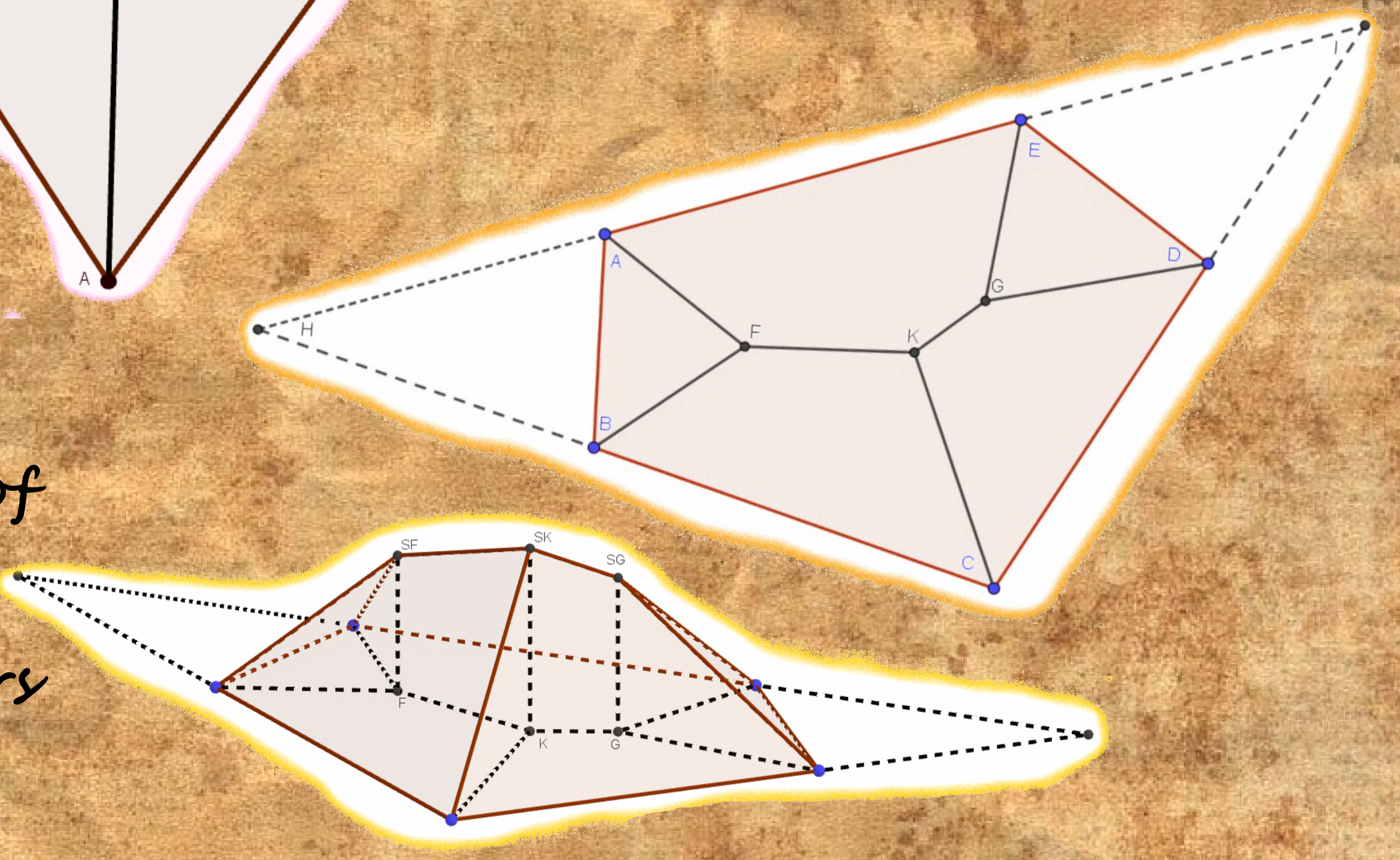
The slope of the sand pile always have the same angle

## Tetrahedron

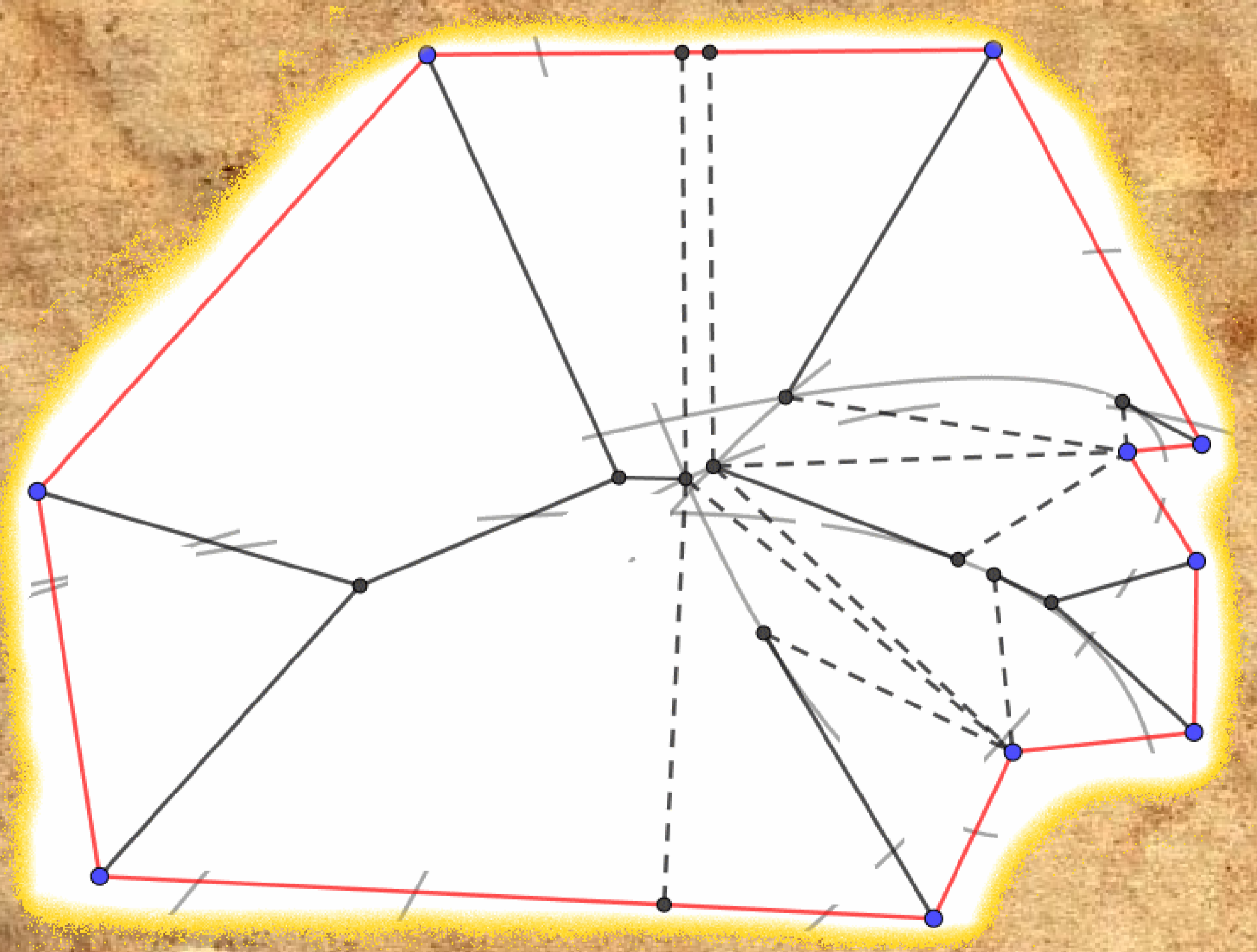


## Convex polygon

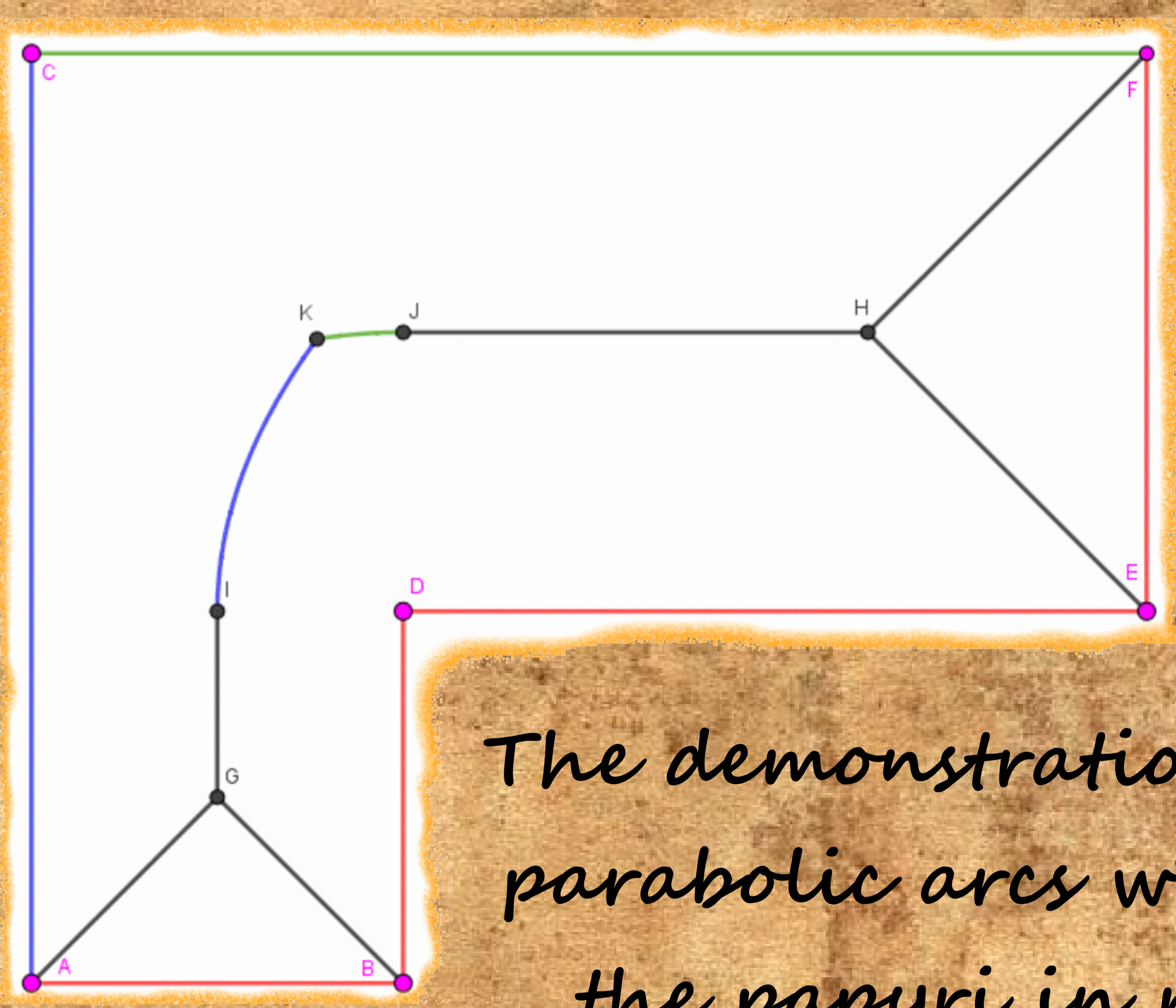
The projection of the vertex of the pyramid is the point of intersection of angle bisectors



## Nonconvex polygon



Geometric model of the sphinx shape



The demonstration of the two parabolic arcs was found on the papyri in room D.30