

GEOMETRICIAN'S VIEWS

Hexadecagons

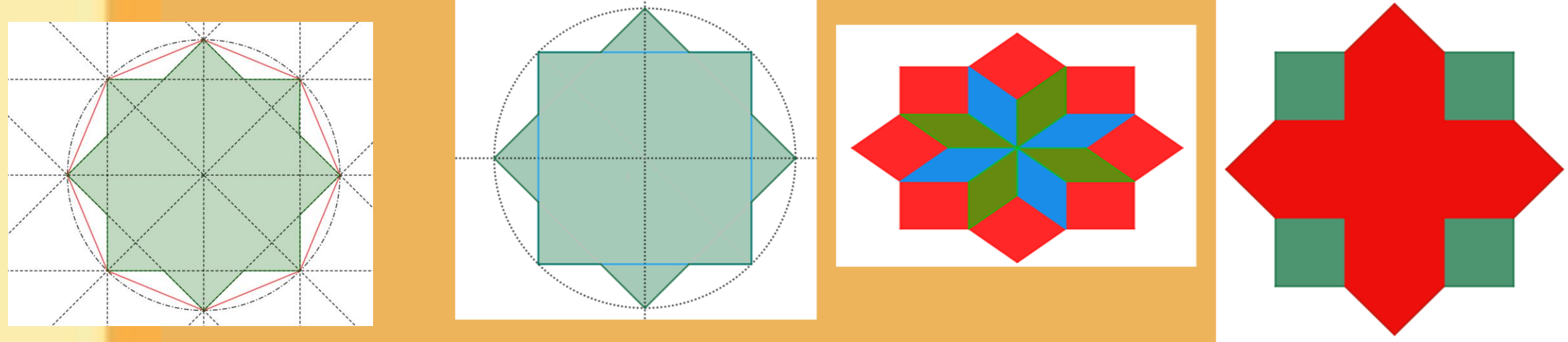


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Mathematical View

Hexadecagons are the uniform truncation of the octagon. Concave hexadecagons (also called 8-pointed stars) are very famous in different religions and cultures. Concave hexadecagons can have many different shapes. In this tutorial, we asked our students to use square papers.

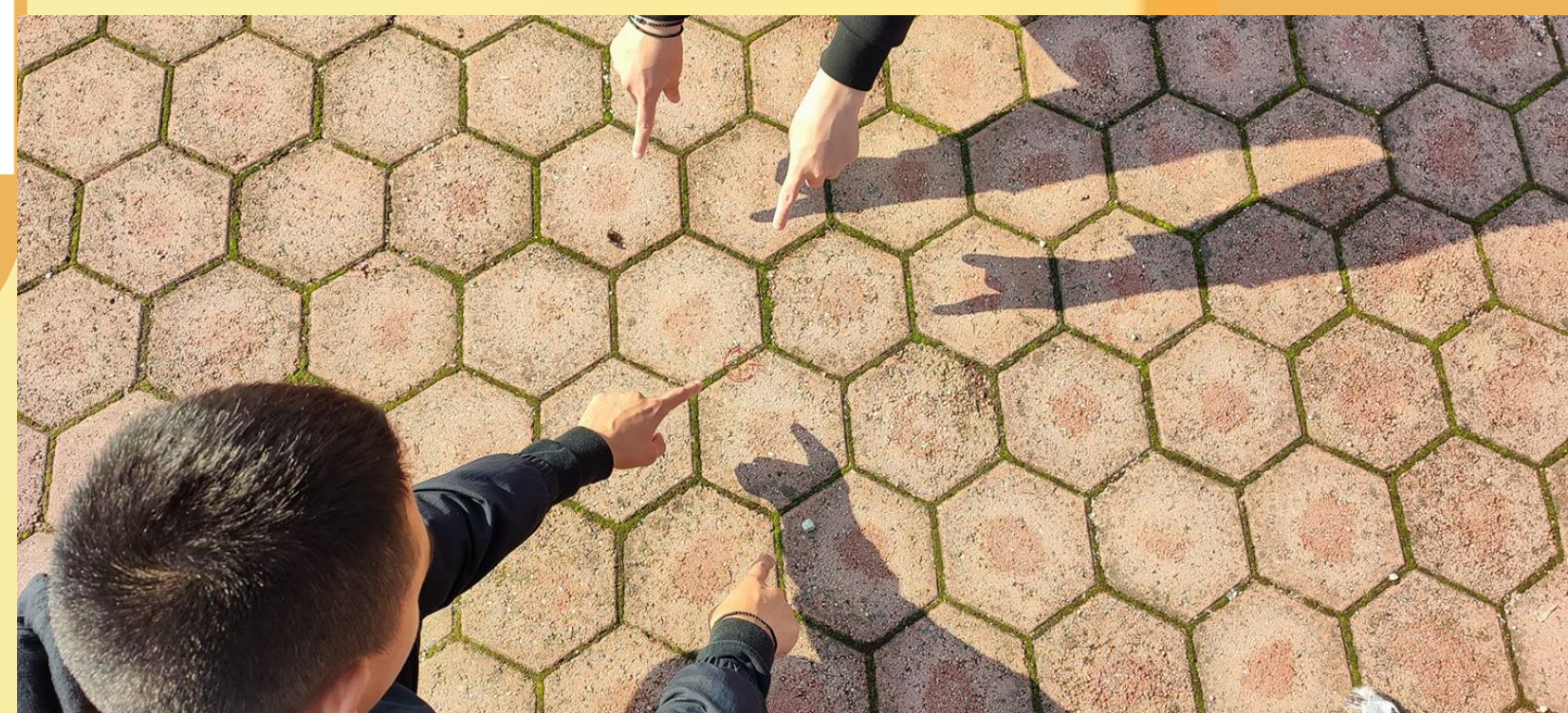
Researcher
Aimilios Vlastos



Artistic View

Constructivity of concave hexadecagons started in October 2022. There was an introduction and how we can create constructs. We used 10 cm square sheets of paper. The activity was presented on October 16, 2022. There was also another activity of creating hexadecagons with the students' bodies. In our school, there is an octagon built with cement. The students' bodies created pretty shapes that were monitored by a drone.

Artiste
Aimilios Vlastos, Vaggelis Spiroulis



Commun View

Hexadecagons are very popular in art and architecture. At the beginning of the 16th century, Raphael was the first to construct a perspective image of a regular hexadecagon: the tower of his painting. The Marriage of the Virgin has 16 sides, resuming an eight-sided tower from an earlier painting by Pietro Perugino. There is a hexadecagonal tower in The Marriage of the Virgin by Raphael.

