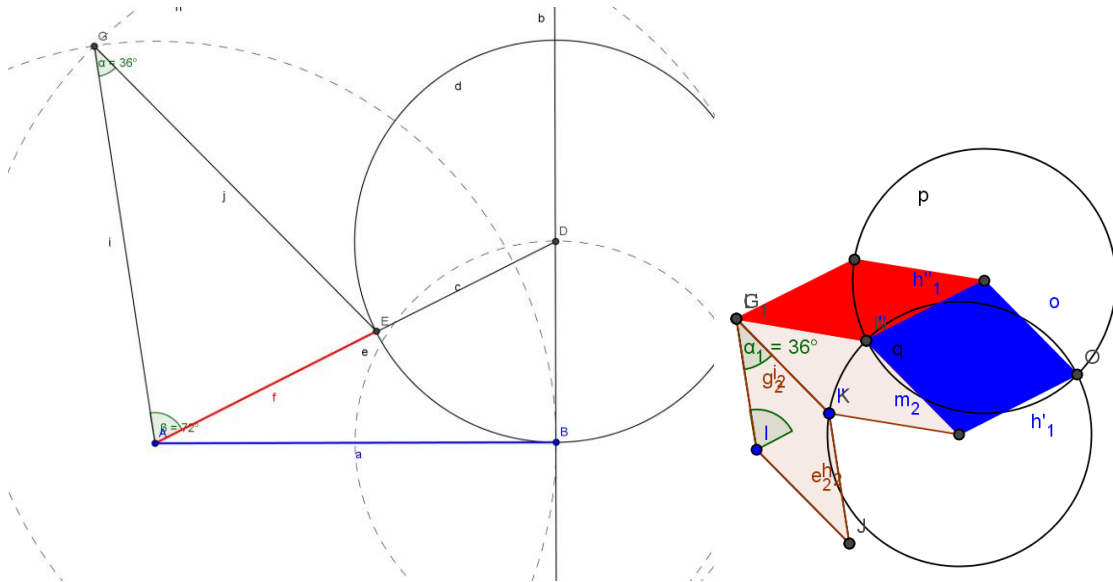


FILL THE GAP!

GeoGebra Action Package (GAP) for the ADVENTURES ON PAPER exercise book

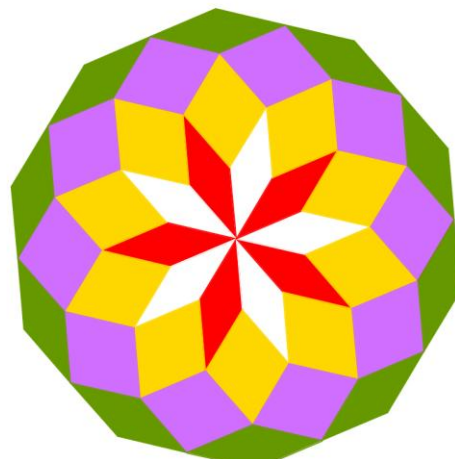
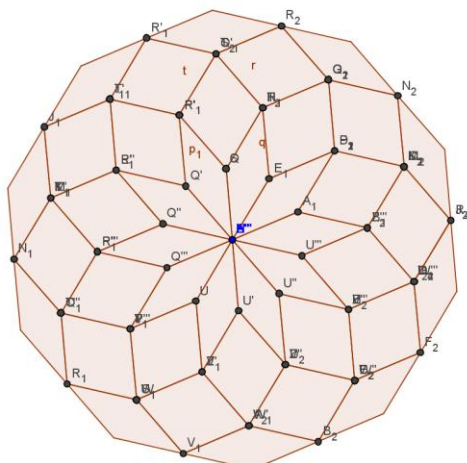
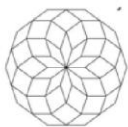
Jean-Marc Castera: Arabesques and Quasicrystals

Exercise 1: Constructing golden section and golden triangle (Castera1.ggb)



Often we can find exercises in which tessellation of the plane is based on two rhombuses. The angles of one of them are 36° and 144° and the others' are 72° and 108° . One way of constructing these rhombuses is based on the construction of the golden section and the golden triangle. With the first work sheet you can study the construction of golden section and the golden triangle and with the second worksheet you can examine the construction of rhombuses.

Exercise 2: Construction of a rosette from rhombuses (Castera2.ggb)



Construct a rosette from the above-mentioned rhombuses then color them, as you like.
Implement rotations during construction.