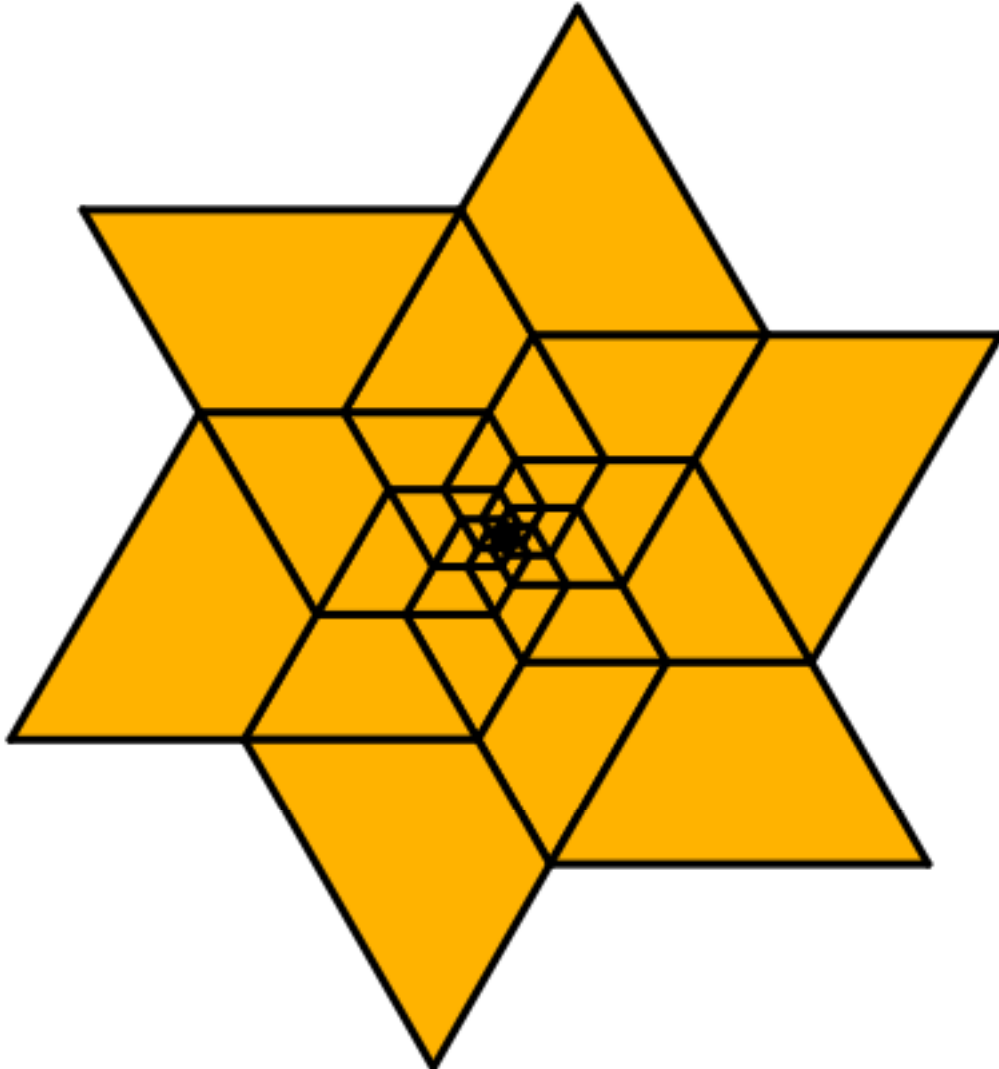


Hans Walser, [20090703a]

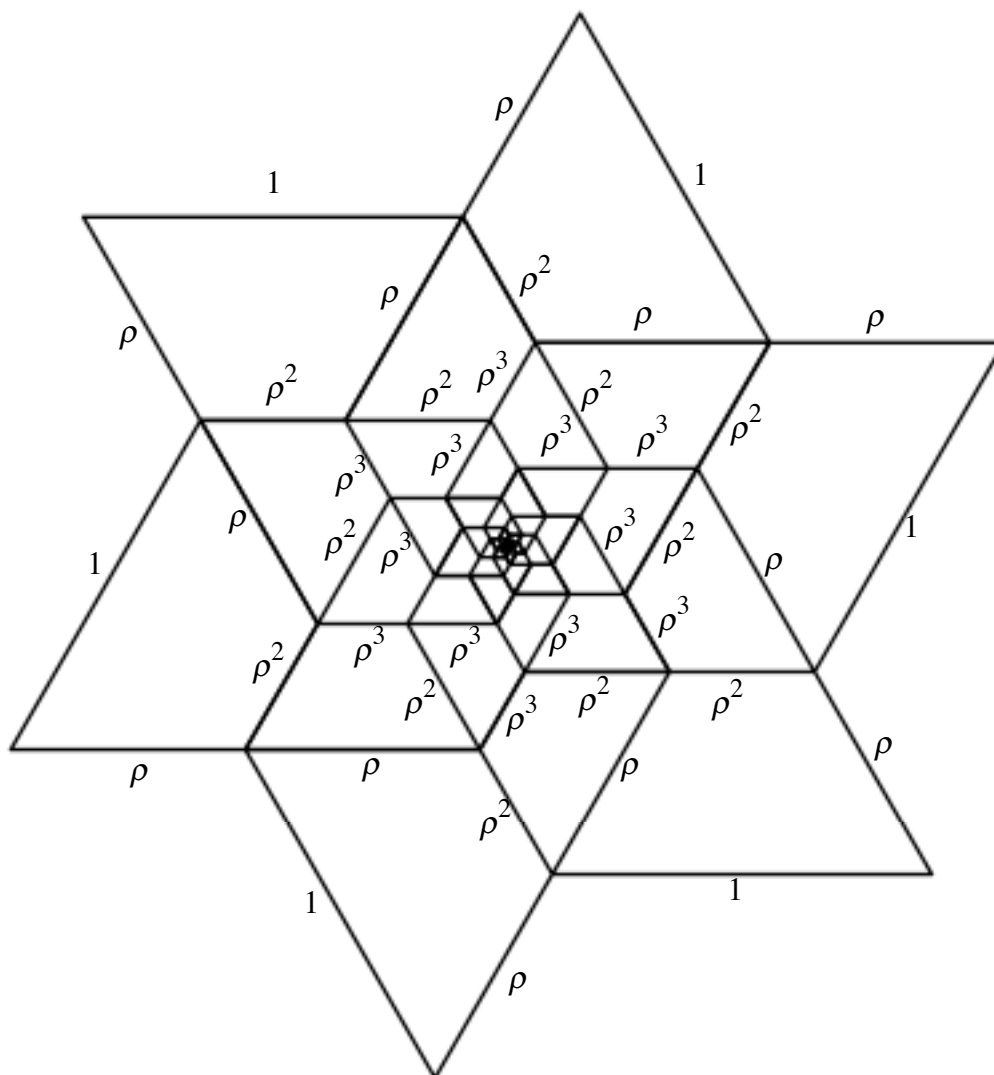
The Golden Star

Just look at the star. Do you see symmetries and regularities?



The golden star

What's behind it?

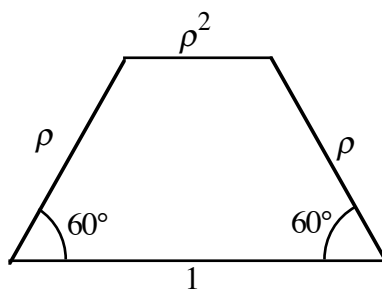


The geometry of the golden star

All trapezoids of the golden star are similar. At the base they have angles of 60°, and the relations of the lengths of the base, the two sides and the top side is

$$1 : \rho : \rho^2,$$

where $\rho = \frac{\sqrt{5}-1}{2} \approx 0.618$ denotes the golden section. Hence the name *Golden Star*.



The geometry of a trapezoids

Since we have towards the center a decreasing geometric sequence, we will never reach the center. In the center we have a white hole.