Golden Ratio

Introduction

https://www.youtube.com/watch?v=kkGeOWYOFoA#t=204

If a segment is divided in such a way that:



We get the Golden Ratio which is present in nature (plants, human body, etc). And

 ϕ is the golden number (**1**,6180339...)





Constructions:

1 – Dividing a segment / Getting a Golden Rectangle when the large side "a" is known



2 - Getting a Golden Rectangle when the short side is known



3 - Getting a Golden Spiral

Starting from a Golden rectangle, we can get a spiral by dividing successively (up to the infinite) the rectangle into a square and another Golden rectangle





4 – Getting a REGULAR PENTAGON when the side is known



STAR PENTAGON

