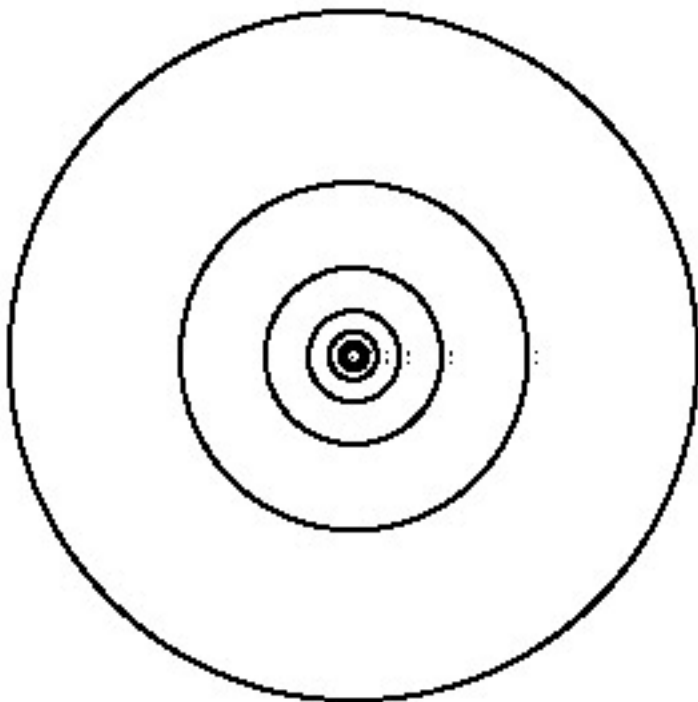


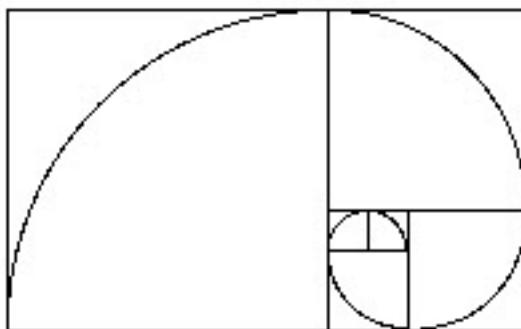
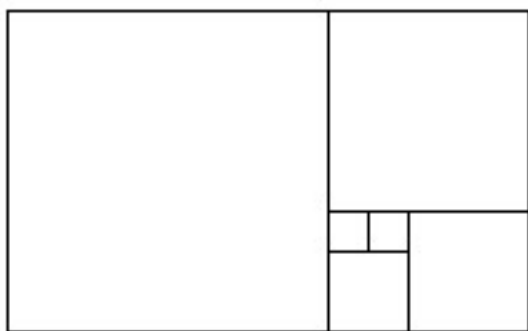
# Similarity

Not only rigid transformation is capable of transforming an object into itself.



For instance, a set (infinite) of concentric circles, each one with a radius twice as big as the preceding, can be transformed into itself by a dilation or a contraction by a factor of 2.

We can combine different types of these transformations, for example in a snail, a chamber can be transformed into an other by means of a dilation and a rotation. This fact allows the organism to grow while keeping the shape of the chamber the same.



Such a spiral remains invariant if we combine a rotation with a dilation in the proper way.