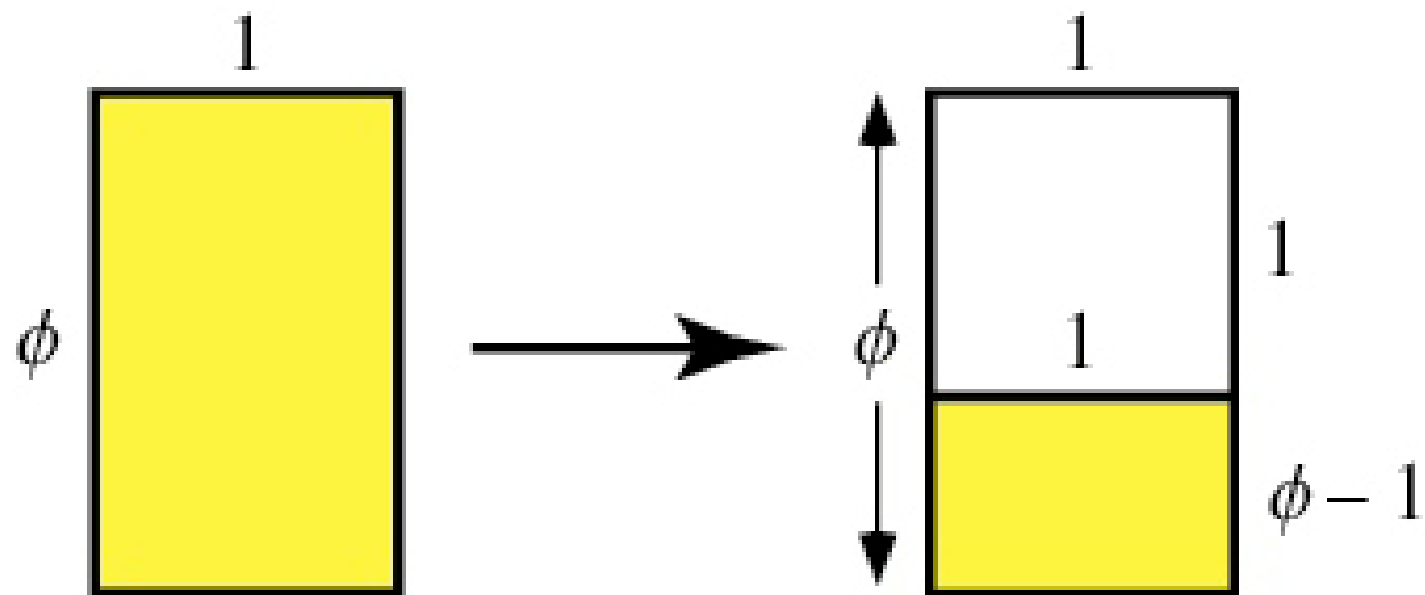


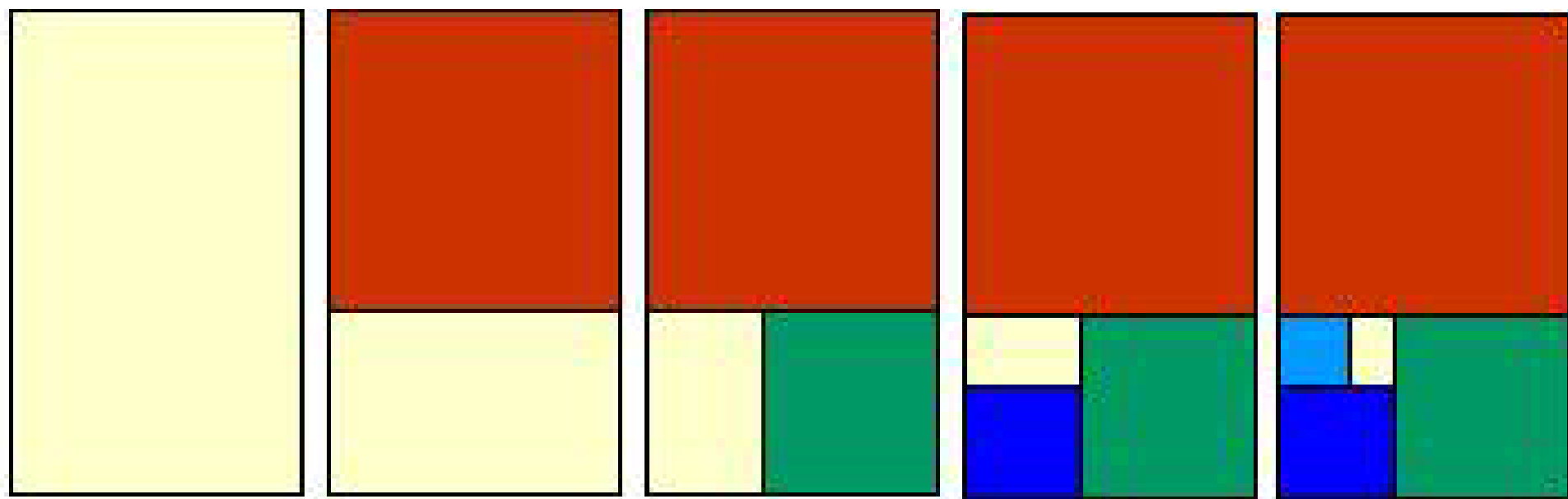
The Golden Ratio

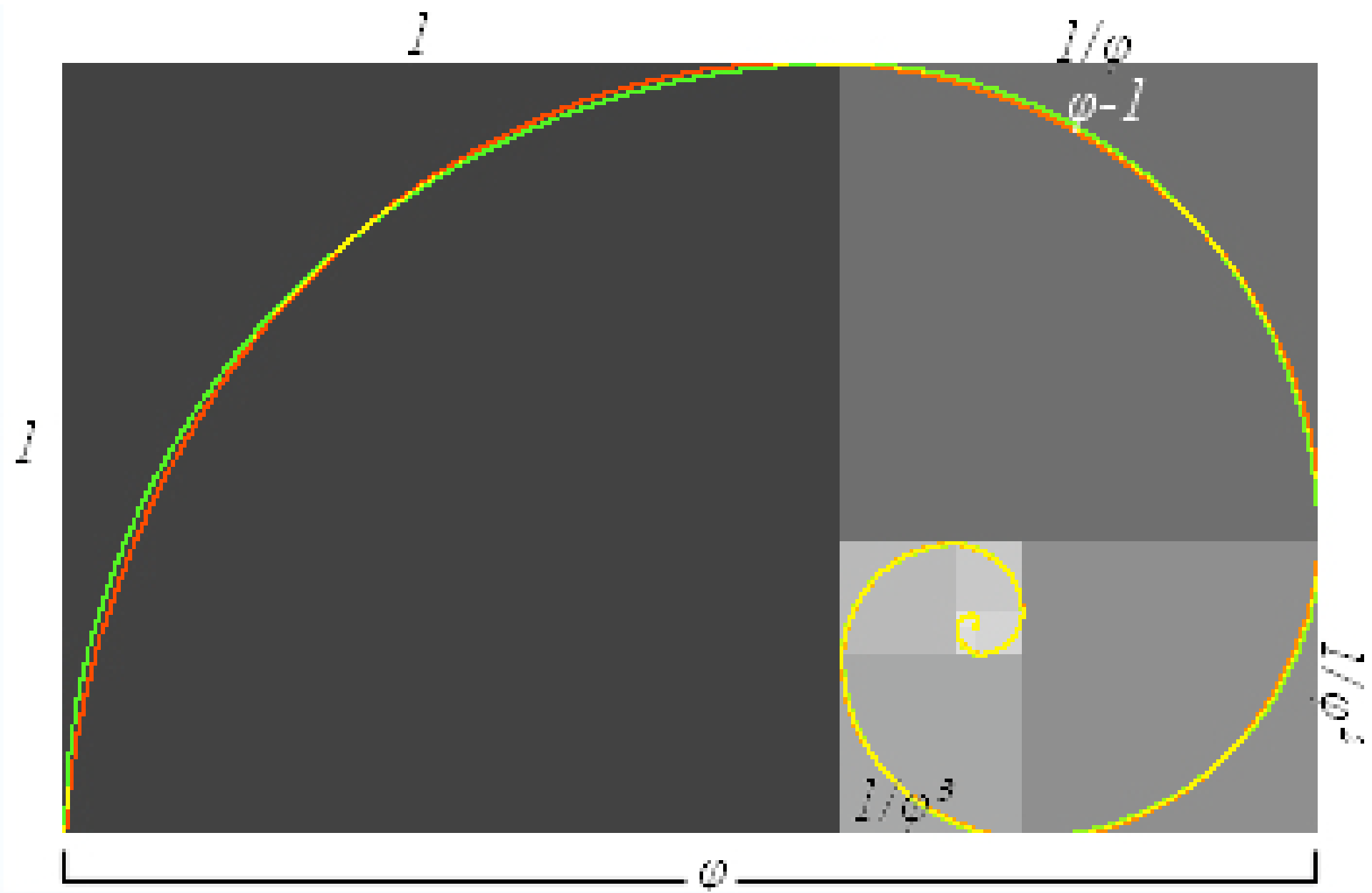
The Golden Ratio

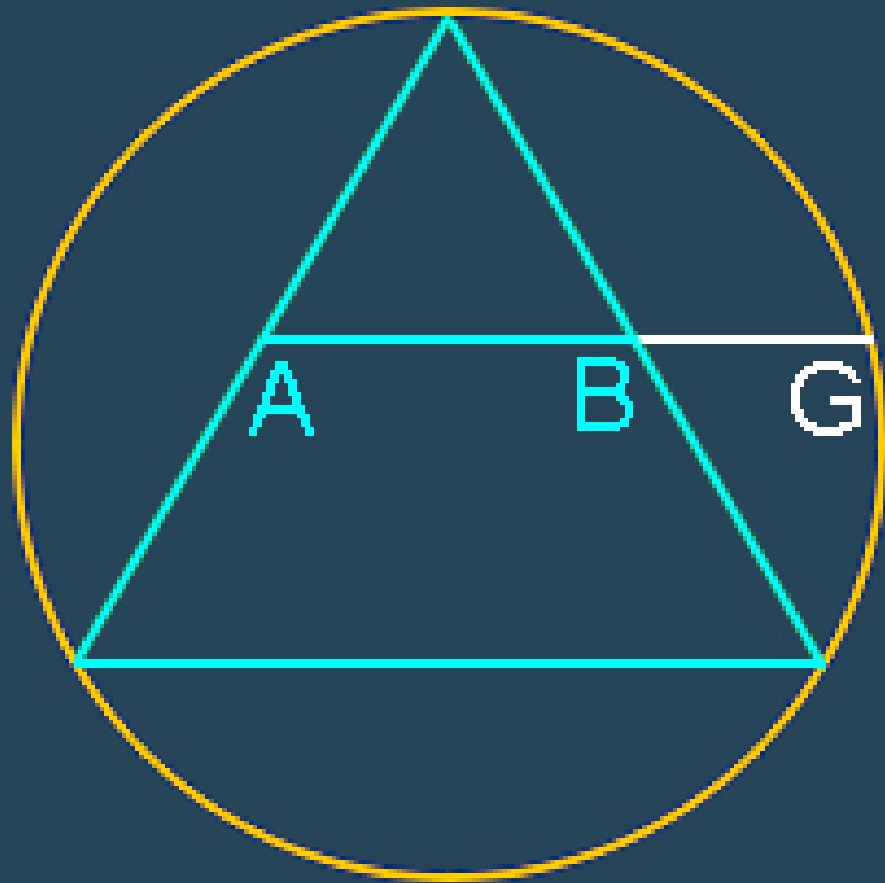
- constant that expresses the ratio occurring when the sum of two numbers is to the larger number as the larger is to the smaller.
- Also known as **golden section, golden mean, golden number, divine proportion, divine section, golden proportion**



$$\frac{\phi}{1} = \frac{1}{\phi - 1}$$





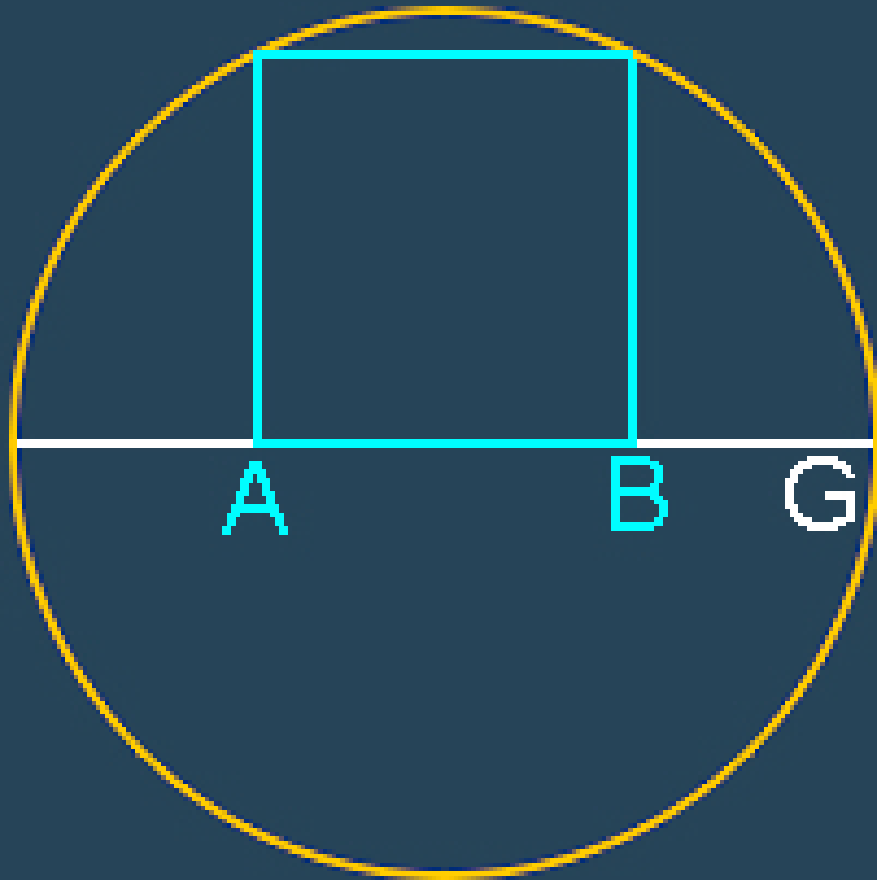


**Insert an equilateral triangle
inside a circle.**

**Find the midpoints
of the two sides at A and B.**

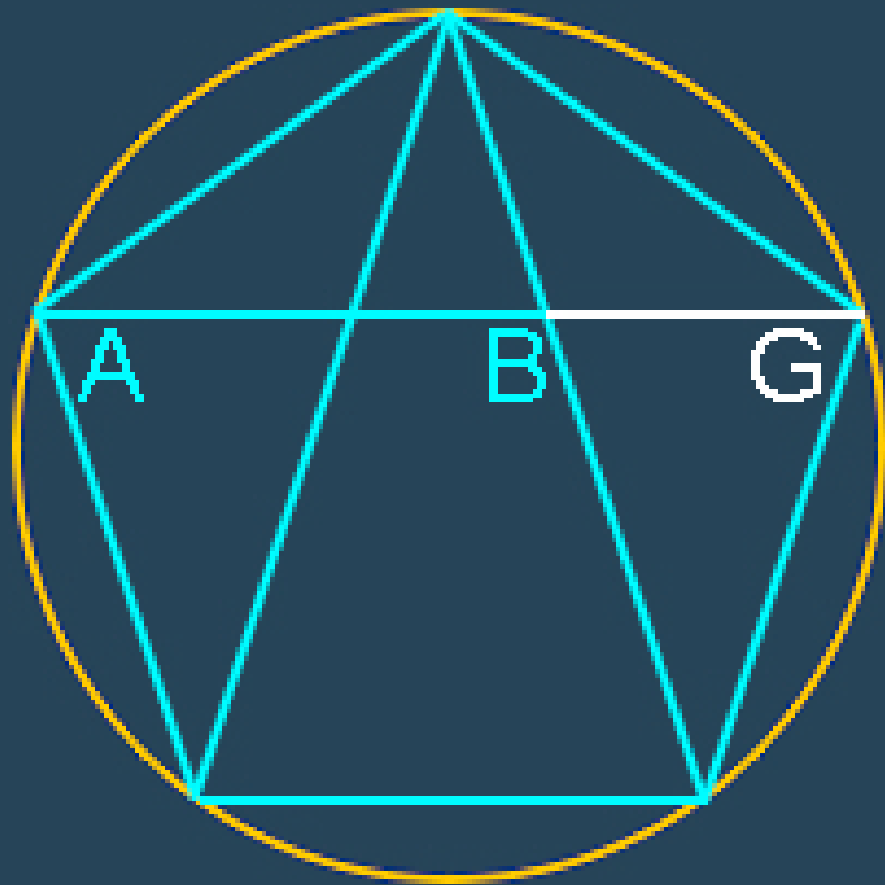
Extend the line to the circle.

The ratio of AB to BG is Phi.



**Insert a square
inside a semi-circle.**

The ratio of AB to BG is Phi.



**Insert a pentagon
inside a circle.**

**Connect three
of the five points
to cut one line
into three sections.**

The ratio of AB to BG is Phi.

A **golden triangle** is an isosceles triangle in which the two longer sides have equal lengths and in which the ratio of this length to that of the third, smaller side is the golden ratio

