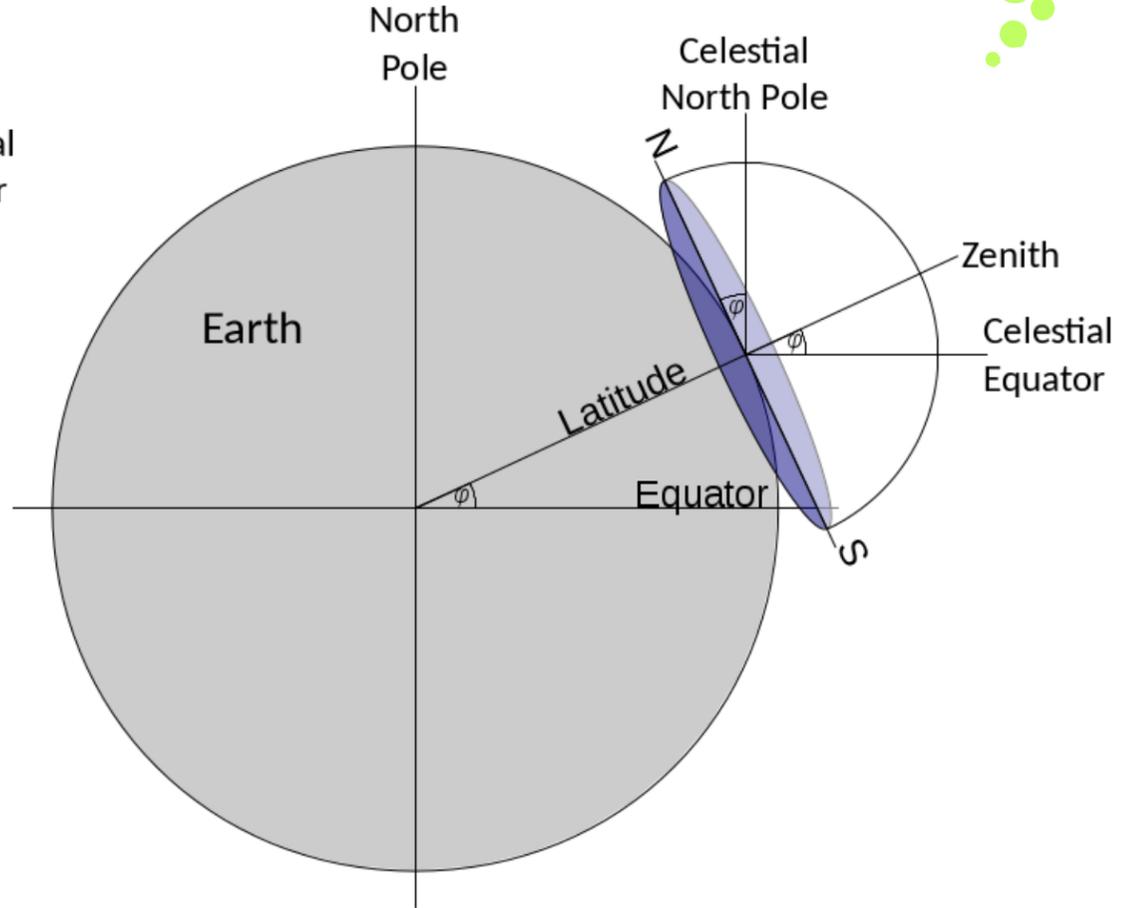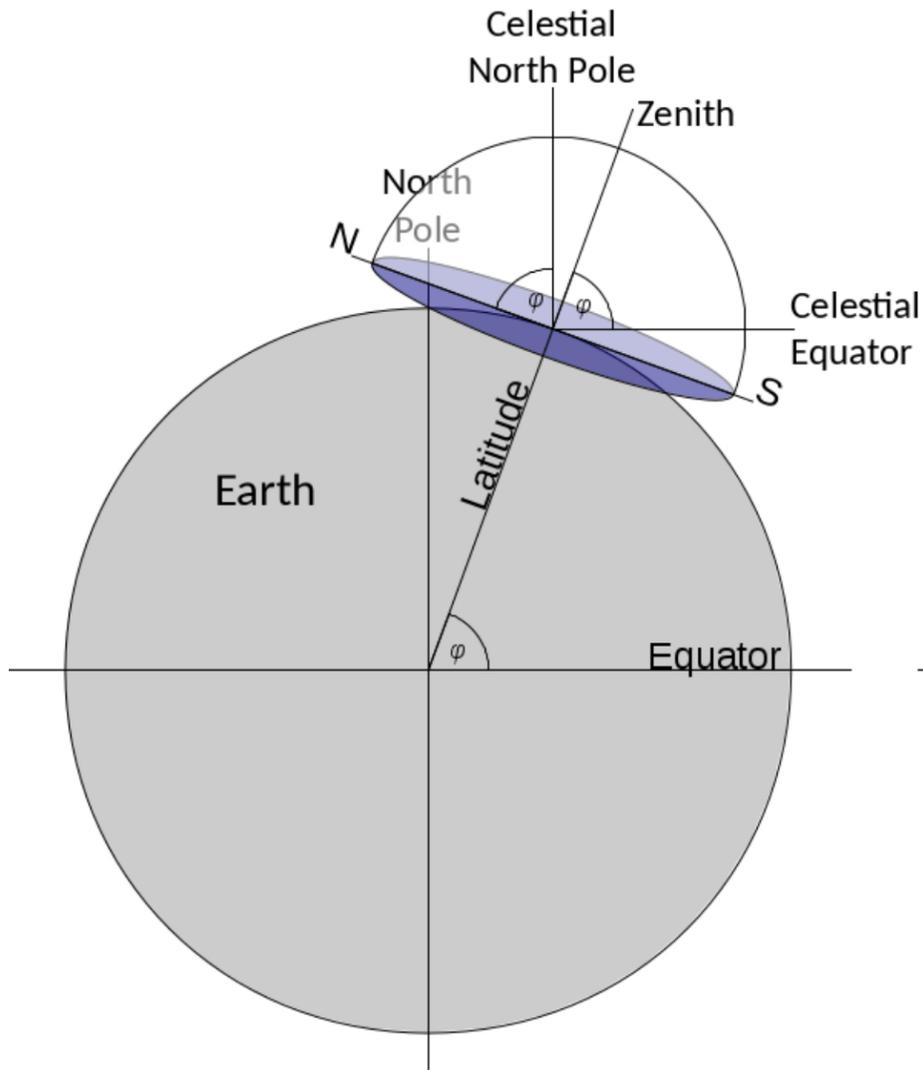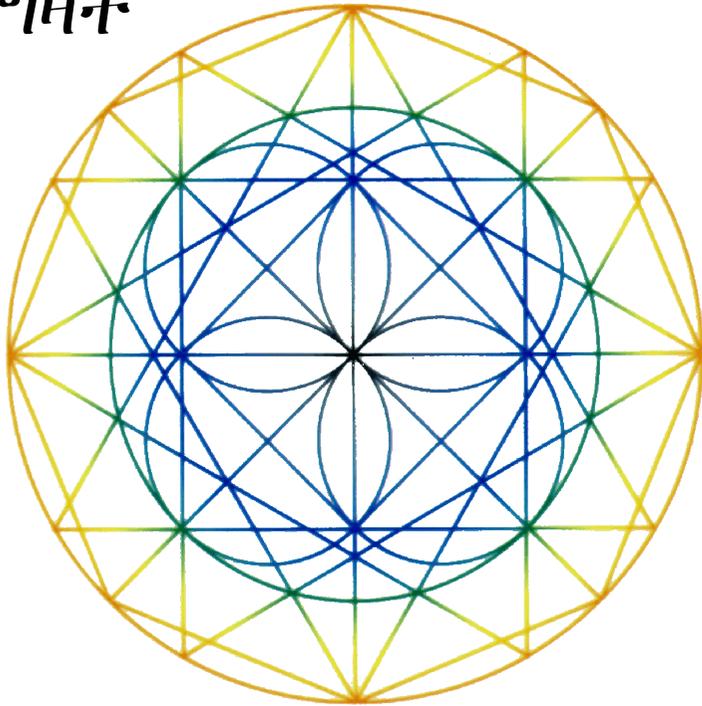# Celestial Views from various Points of Latitude

Look up again with a new light.

Redraw this illustration to show:
London; 51.5074° N , 0.1278° W

ግዘት

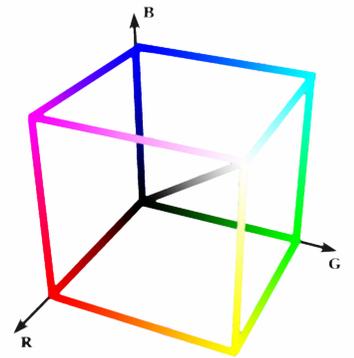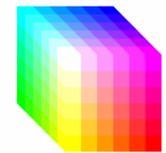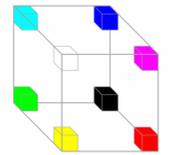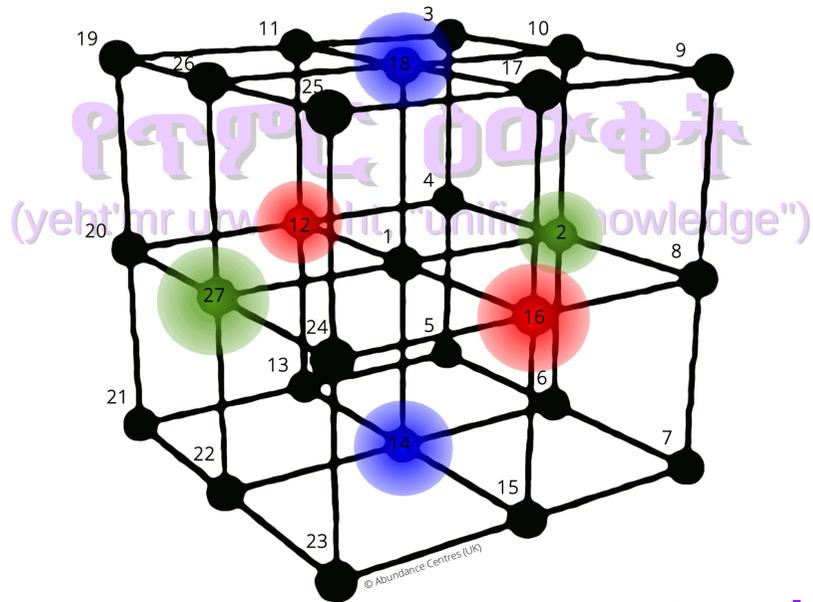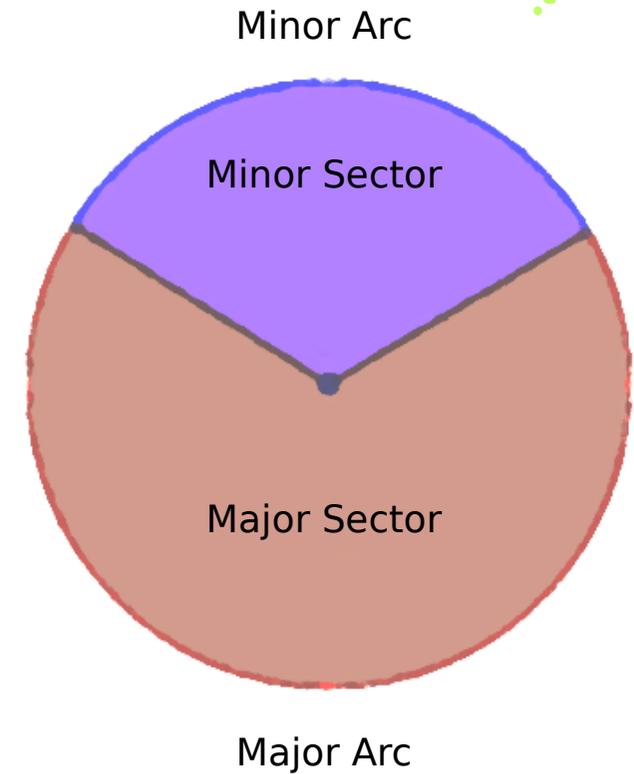# Mantis Memory Matrix ™ : Master Form 001

mathsdance.co.uk ● abundancecentre.org ● blackopenuniversity.eu

© Abundance Centres (UK)

የጥምር ዕውቀት
(yeht'mr urwuk'eht, "unifiedknowledge")

© Abundance Centres (UK)

የጥምር ዕውቀት
(yeht'mr urwuk'eht, "unifiedknowledge")

Anatomy of a Circle

Tangent

Chord

Diameter

Radius

Circumference
perimeter of a circle

Minor Arc

Minor Segment

Major Segment

Major Arc

Minor Arc

Minor Sector

Major Sector

Major Arc
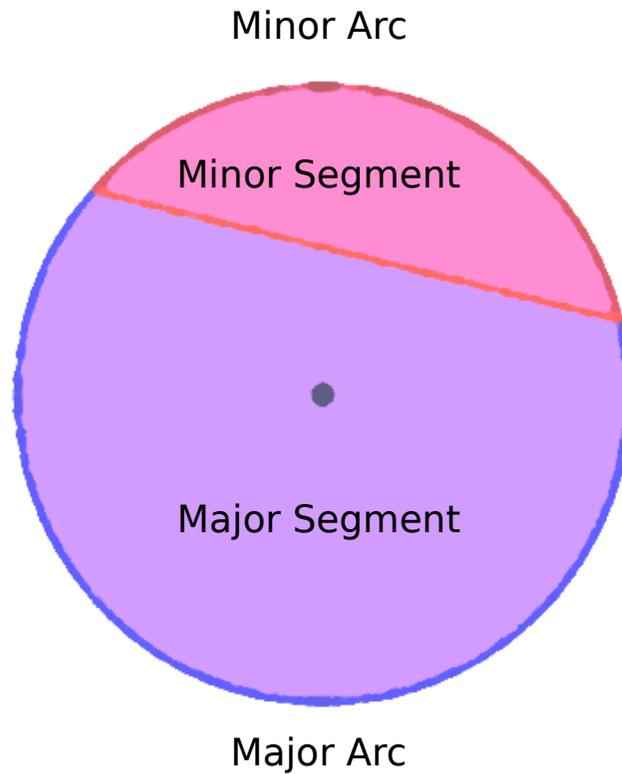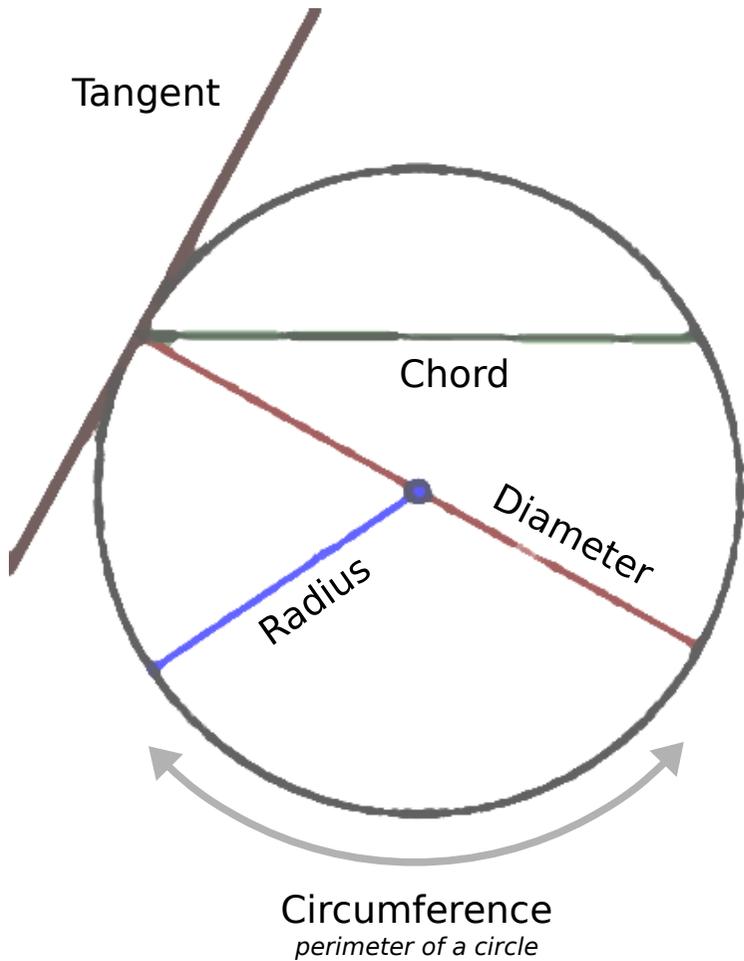
The key circle ratio is found when the circumference of a circle is divided by its diameter.

Explore and prove this special ratio.

Ratios of a Right Angled Triangle in a Unit Circle

F

excsc

cot

A

cvs

csc

sin

sin

tan

θ

C

chord

O

cos

versin

D

exsec

E

1

sec

B

level being 9
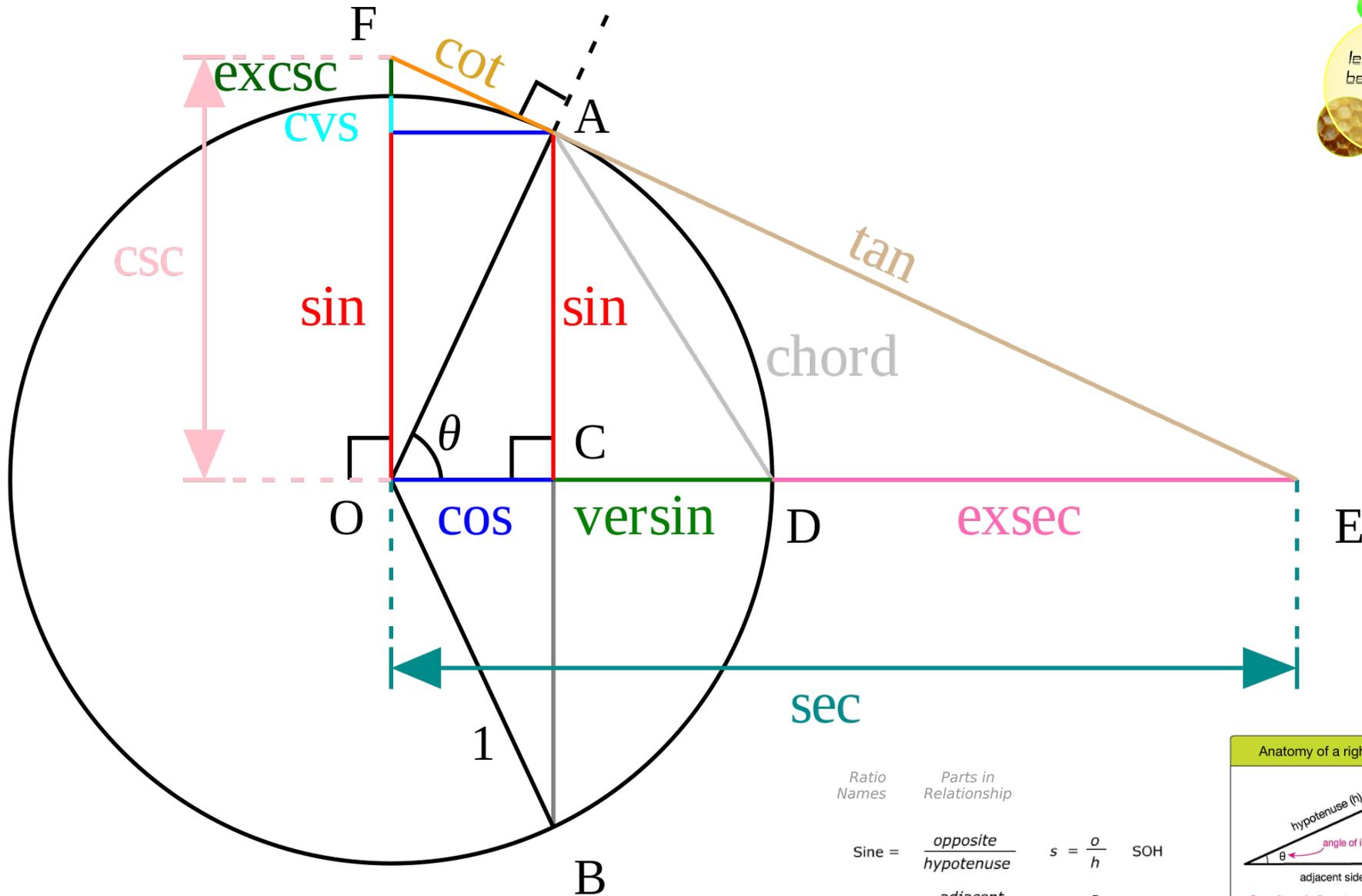uLearn
Naturally
mathematics

Ratio Names	Parts in Relationship			
Sine =	$\dfrac{opposite}{hypotenuse}$	s	$= \dfrac{o}{h}$	SOH
Cosine =	$\dfrac{adjacent}{hypotenuse}$	c	$= \dfrac{a}{h}$	CAH
Tangent =	$\dfrac{opposite}{adjacent}$	t	$= \dfrac{o}{a}$	TOA

Anatomy of a right triangle

hypotenuse (h)

angle of interest

θ

adjacent side (a)

opposite side (o)

Opposite and adjacent sides are defined by the angle of interest.

h

θ

a

o