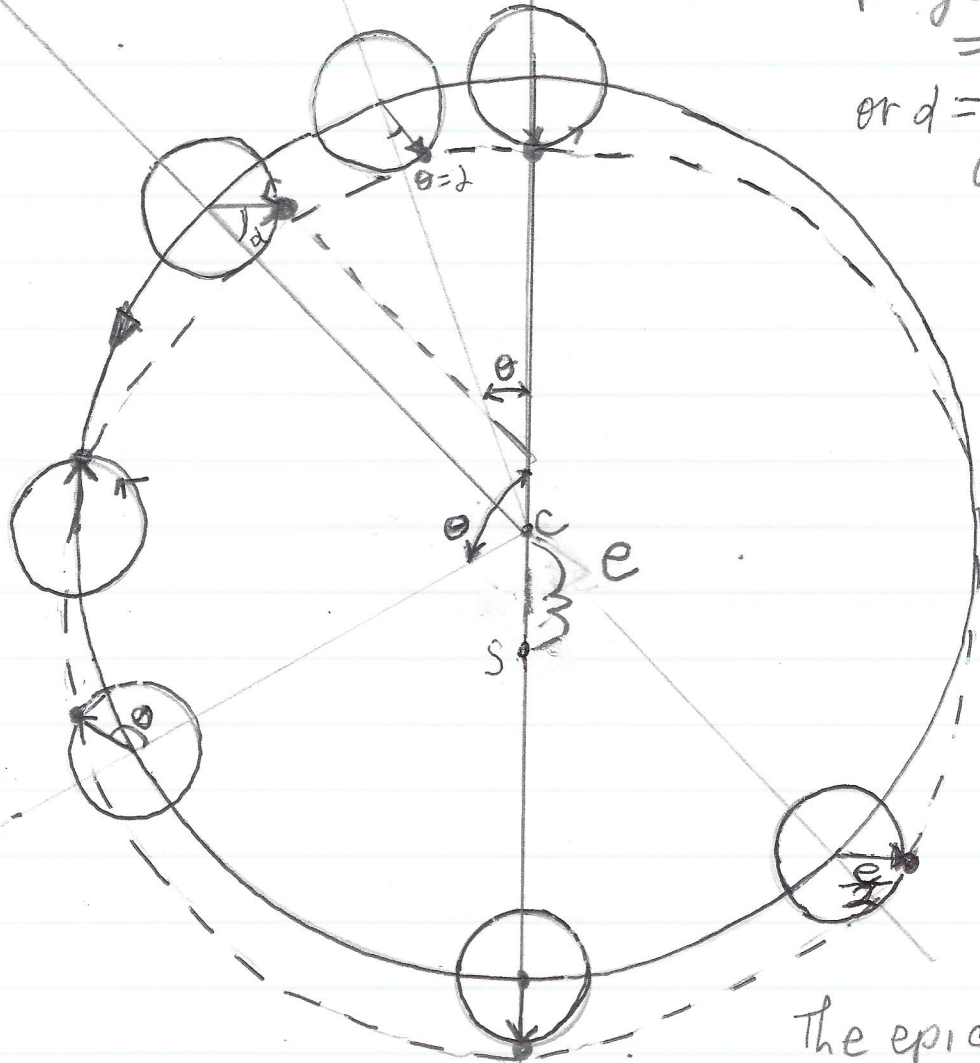


Copernican
eccentric
deferent +
epicycle

eccentric deferent
with an epicycle
epicycle period
 $= \frac{1}{2}$ deferent
or $d = \theta = \lambda$ in old not.
CCW rotation
on deferent
+ epicycle

radius of
epicycle =
planet's
orbital
eccentricity
 $\frac{e}{2}$



The epicycle
anomaly $d = \theta$
in Copernican
planetary system

Epicycles take the place
of the equant. Copernicus'
attempt to mock up the elliptical orbit.

The epicycle orbits are considerably smaller than
the epicycle radius in geocentric system