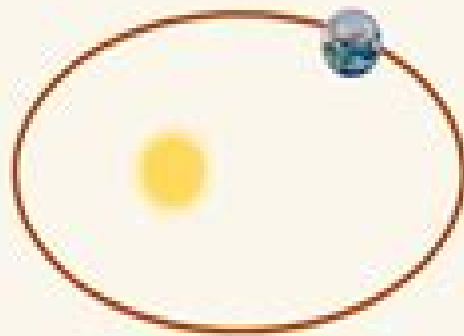


# Kepler's Laws of Planetary Motion



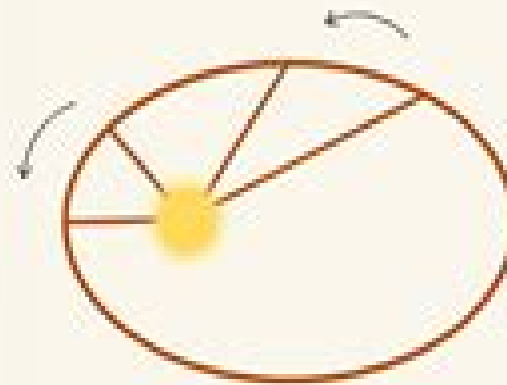
## First Law



ellipse

Planets orbit in ellipses with the Sun at one focus.

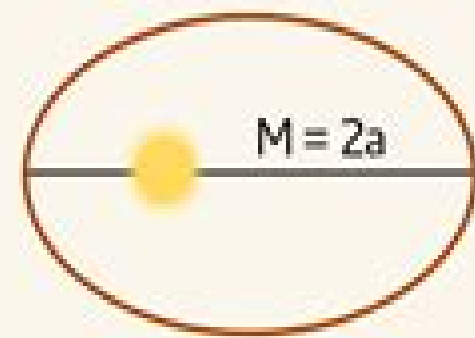
## Second Law



Planets sweep out equal areas in equal times.

## Third Law

P: period (time for one cycle)  
2a: length of major axis



$$P^2 \propto a^3$$

The square of the orbital period is proportional to the cube of the semi-major axis

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