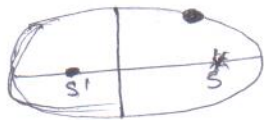


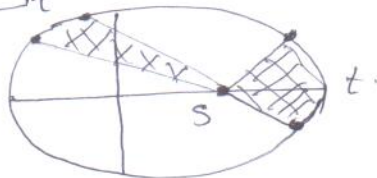
Kepler's laws: Kepler gave three laws -

① Law of orbit :- Each planet revolves around the sun in elliptical orbit and sun is present/situated one of the foci of the ellipse.



② Law of Area :- The planet revolving around the sun, sweeps equal areas in equal times. i.e. Areal velocity of planet is

Const.  $\frac{dA}{dt} = \frac{\text{const}}{dt}$



③ Law of time period :- The square of the time period of revolution of the planet is directly proportional to the cube of the semi-major axis of the elliptic orbit. ( $T^2 \propto a^3$ )