Short war On Surep

Smith

OK RC

One of Keplers Laws States that the area Swept out, by the radius vector from the sun to a planet is constant. Prove this statement

For planetory motion have growtational

F = - 6 m, m z r; a central force

So $\overline{N} = \overline{D} = d\overline{L} = \overline{D} = constant$ = mr20

one $dS = \frac{1}{2}\Gamma(rd\theta)$ so $dS = \frac{1}{2}\Gamma^2\theta = \frac{1}{2}\Gamma$

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