DRBITAL HECHANICS

TIME LAW FOR HYPERBOLA

For hyperbola
$$r = -\overline{e} \left(1 - e \cos(i\overline{e})\right) = -\overline{e} \left(1 - e \cosh \overline{e}\right)$$

$$V = -\bar{a}(1 - e\cosh E) \quad (2.23)$$

For ellipse
$$H-H\rho=E-esinE$$
 Eq (2.8), (2.11)

For Hyperbola

TIME LAW HY PERBOCA

Relation D, E

for hyporbole
$$t_{\frac{9}{2}} = \sqrt{\frac{1+e}{1-e}} \frac{\sin(\frac{i\overline{E}}{2})}{1-e}$$

$$\frac{1}{1+e} - \frac{1}{1} \sinh\left(\frac{\overline{E}}{2}\right)$$

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$$= \left(\frac{1+e}{2-e}\right) \frac{1}{2} \frac{1}{2} \left(\frac{E}{2}\right)$$

$$\frac{t_{g}}{\epsilon} = \frac{t_{g}}{\epsilon - t_{g}} \frac{(\epsilon)}{(\epsilon)}$$

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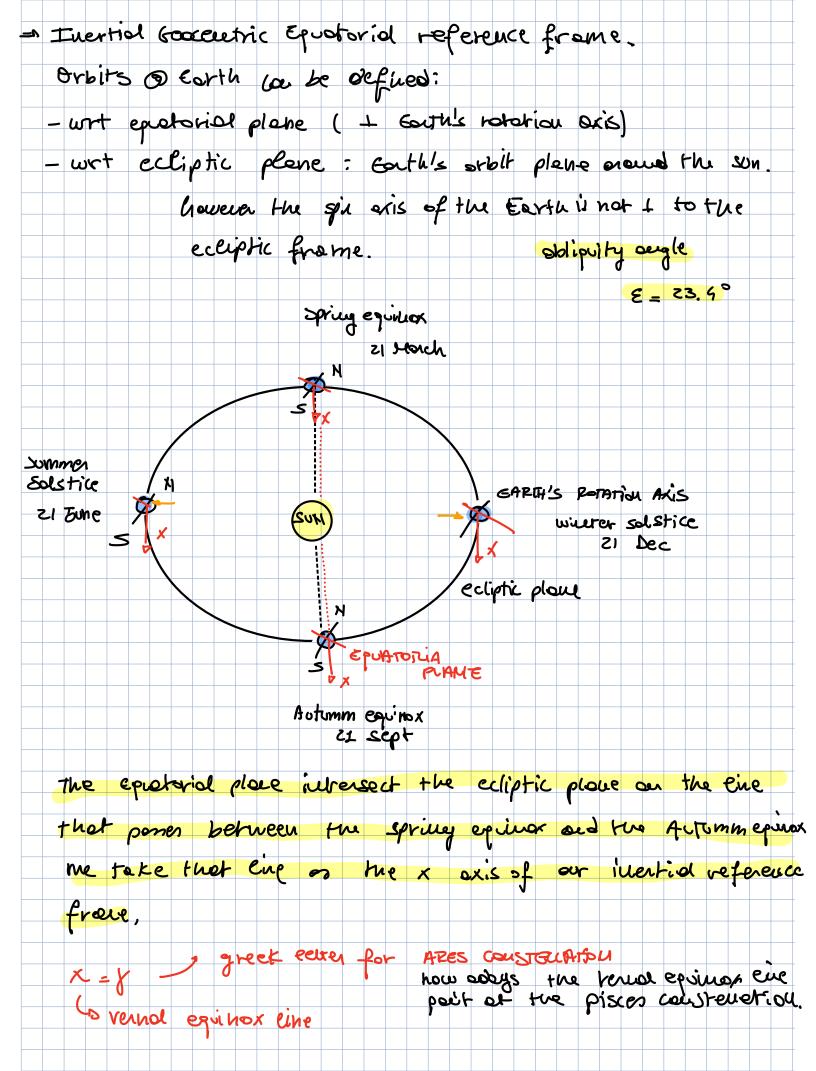
$$\frac{t_{g}}{\epsilon - t_{g}} = \frac{t_{g}}{\epsilon - \epsilon} \frac{(\epsilon - \epsilon)}{\epsilon}$$

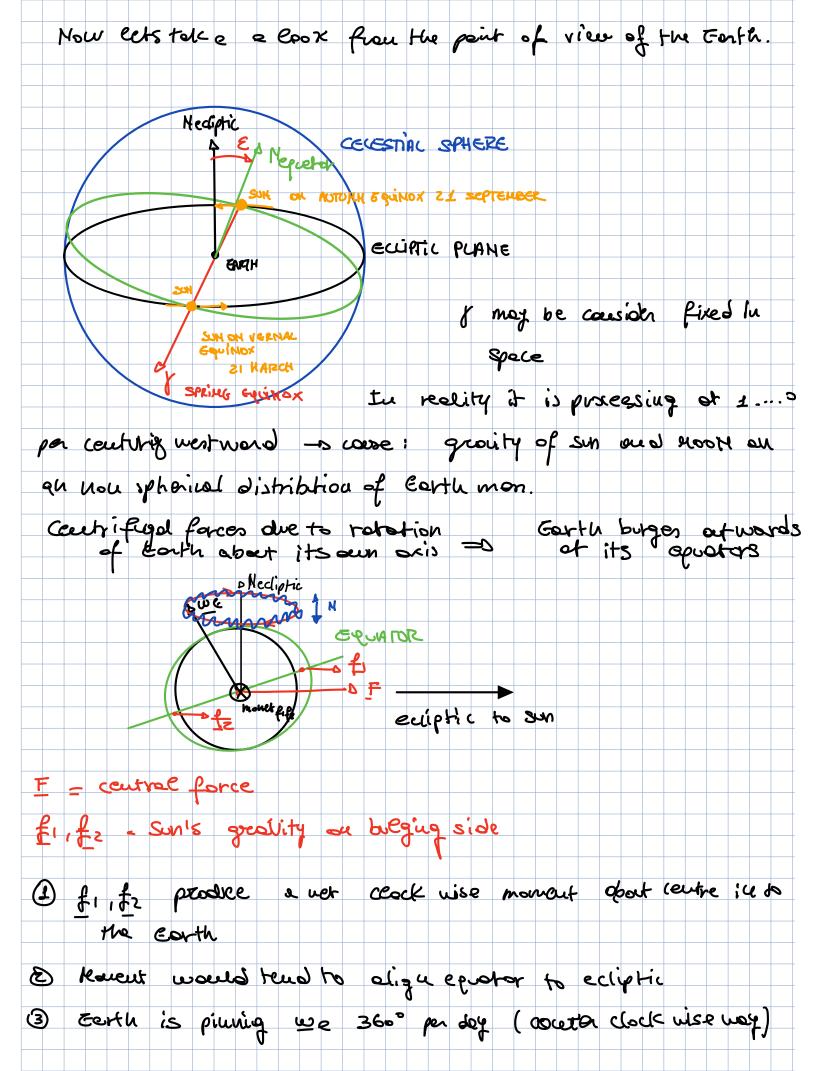
$$\frac{t_{g}}{\epsilon - t_{g}} = \frac{t_{g}}{\epsilon - \epsilon} \frac{(\epsilon - \epsilon)}{\epsilon} \frac{(\epsilon - \epsilon)}{\epsilon}$$

42-41 = E2-esinez- (E1-esinE1)

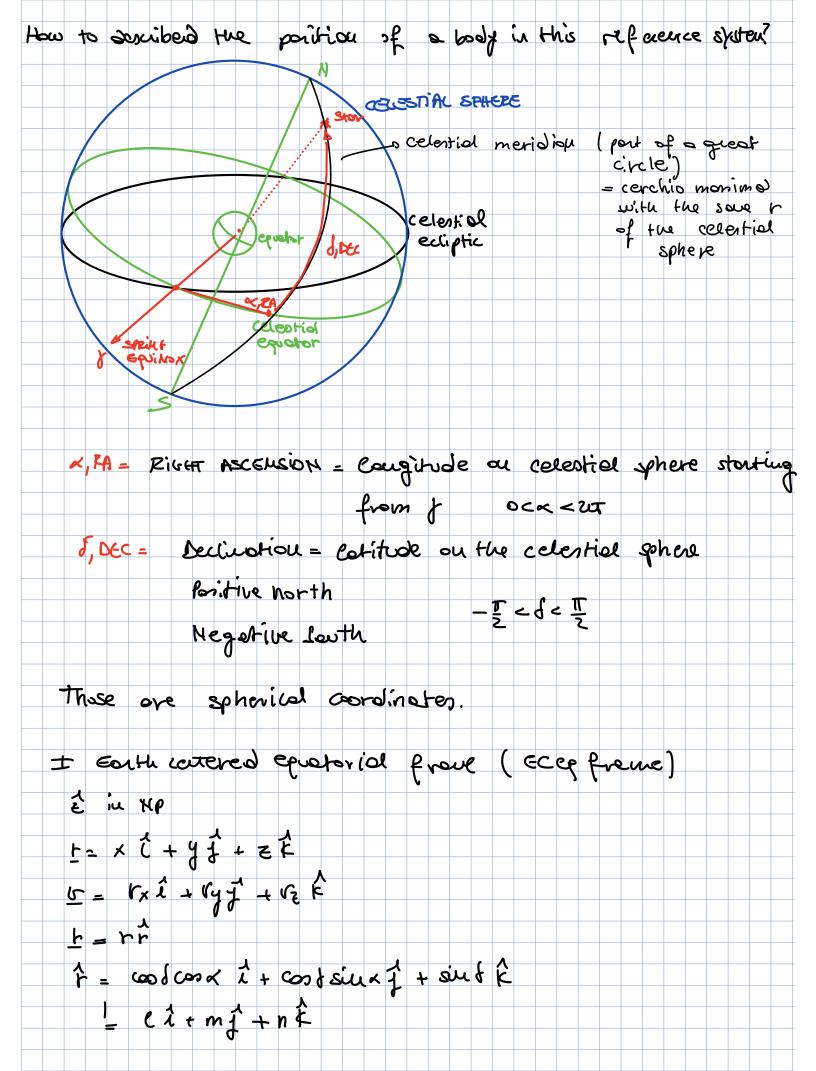
$$\int_{3}^{M} (+-tp) = esinhF-F \qquad (230)$$

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$$C = \frac{1}{r} \quad m = \frac{4}{r} \quad n = \frac{2}{r}$$

$$d = 6m^{-1}(h)$$

$$d = \frac{1}{r} \quad cool \left(\frac{e}{cool}\right) \quad m > 0$$

$$cool \left(\frac{e}{cool}\right) \quad m \leq 0$$