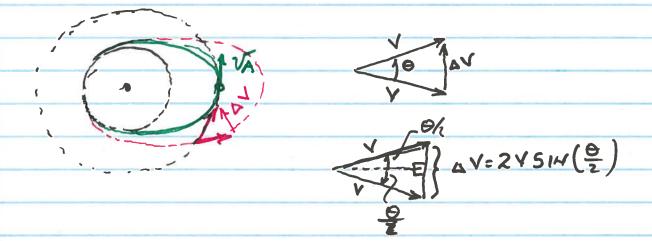
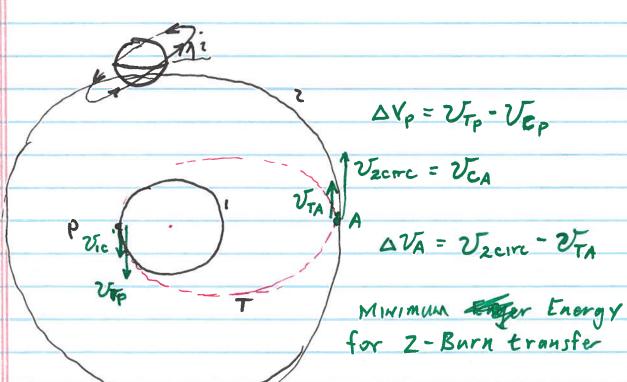
- o) charles Norto NASA
- 1) Project
- 2) Hohmann Transfers





$$r(\theta) = \frac{h^{2}}{n(1+e\cos\theta)}$$

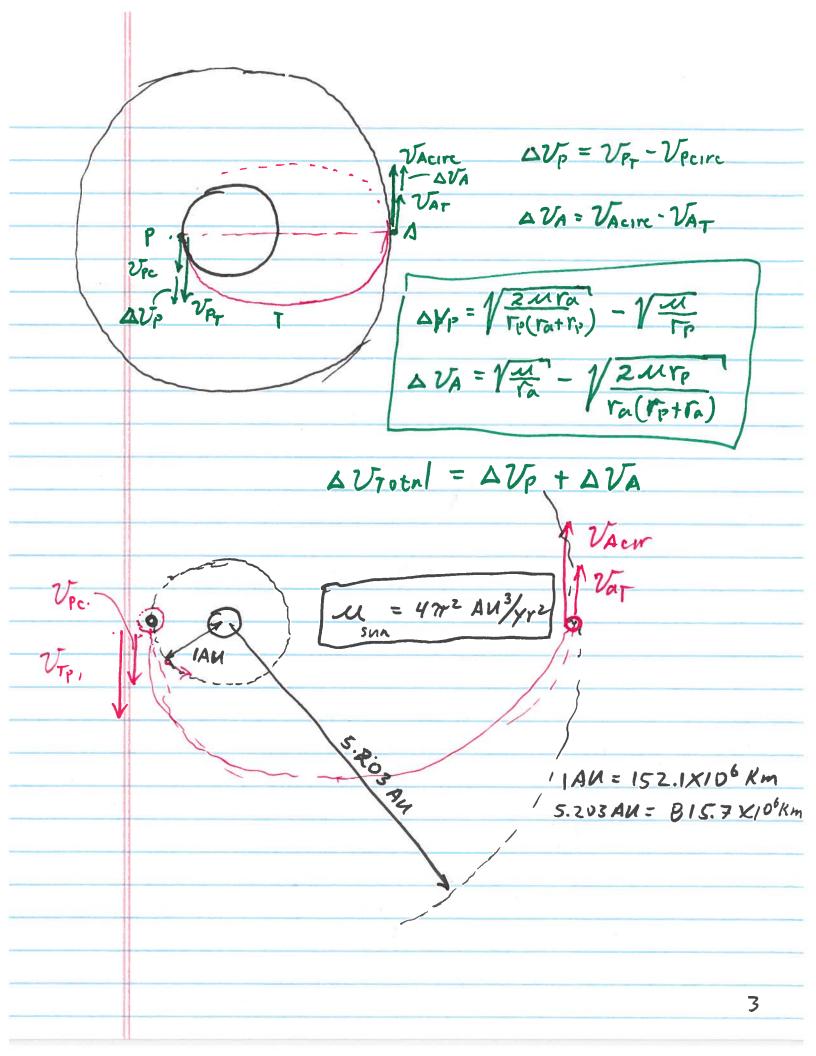
$$r_{p} = \frac{h^{2}}{n(1+e)}$$

$$r_{a} = \frac{n^{2}}{n(1-e)}$$

$$r_{a} = \frac{n^{2}}{n(1-e)}$$

$$r_{a} = \frac{n^{2}}{n(1+e)}$$

$$r_{b} = \frac{n^{2}}{n$$



$$\Delta V_{p} = \sqrt{\frac{2\pi V_{0}}{V_{p}(V_{p}+V_{p})}} - \sqrt{\frac{\pi}{V_{p}}}$$

$$V_{p} = \sqrt{\frac{2\pi V_{0}}{V_{p}(V_{p}+V_{p})}} - \sqrt{\frac{\pi}{V_{p}}}$$

$$V_{p} = \sqrt{\frac{2\pi V_{0}}{V_{p}+V_{p}}} - \sqrt{\frac{\pi}{V_{p}}}$$

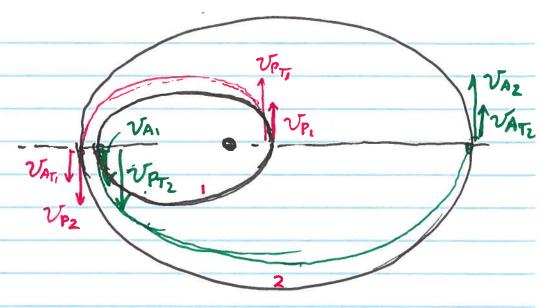
$$V_{p} = \sqrt{\frac{2\pi V_{0}}{V_{p}+V_{p}}} - \sqrt{\frac{\pi}{V_{p}}}$$

$$V_{p} = \sqrt{\frac{2\pi V_{0}}{V_{p}+V_{0}}} - \sqrt{\frac{2\pi V_{0}}{V_{0}}}$$

$$\Delta V_{p} = \sqrt{\frac{2\pi V_{0}}{V_{0}}} - \sqrt{\frac{2\pi V_{0}}{V_{0}}} + \sqrt{\frac{2\pi V_{0}}{V_{0}}}$$

$$\Delta V_{p} = \sqrt{\frac{2\pi V_{0}}{V_{0}}} - \sqrt{\frac{2\pi V_{0}}{V_{0}}} + \sqrt{\frac{2\pi V_{0}}{V_{0}}}$$

= 2,909 Year



CASE #1

CASE #2

$$\Delta V_{TOTA} = \Delta V_{P_{T_2}} + \Delta V_{A_{T_2}}$$

$$= \left[\mathcal{V}_{P_{T_2}} - \mathcal{V}_{A_1} \right] + \left[\mathcal{V}_{A_2} - \mathcal{V}_{A_{T_2}} \right]$$