PHY321, APRIL 8, MIDTERM DISCUSSIONS

$$\mu \dot{n}' = -\frac{dv}{dr} + \frac{L^2}{\mu r^3}$$

$$-n m i \dot{n} = \frac{1}{1+\epsilon} \frac{1}{1+\epsilon} \frac{1}{1-\epsilon}$$

$$-n m i \dot{n} = \frac{L^2}{\mu dr}$$

$$\frac{dv_{eff}}{dr} = 0 = -F(r) = -\mu \dot{n}$$

$$\dot{n}' = 0$$

$$V(r) = -\frac{dr}{dr}$$

$$\frac{d\phi}{dr} = \frac{L^2}{\mu r^2} /_{r=1} \frac{1}{\mu r}$$

$$K = \frac{L}{2} \frac{m^2 + L^2 \dot{r}^2}{2}$$

$$at r=1 m i = constart$$

$$\frac{dA}{dt} = \frac{L}{2M} = \frac{1}{2M} / \frac{1}{2} \times \frac{1}{2} = \frac{1}{2} / \frac{1}{2} \times \frac{1}{2} / \frac{1}{2} /$$

$$GM_{G} = 4\pi^{2}(AU)^{3}/2$$

$$M = \frac{M_{G}}{M_{O}}$$

$$QE_{X} = -\frac{4\pi^{2}XE}{N^{3}}$$

$$-4\pi^{2}(\frac{M_{J}}{M_{G}})\frac{(XE-X_{J})}{N^{3}E_{J}}$$