a)
$$T_{sp} = \frac{de}{g} = \frac{1}{g} \left[M_{e} \sqrt{rr_{c} \left(\frac{1}{1 + \frac{r_{c}}{2} M_{e}^{2}} \right)} \right]$$

NEED TO ITERATE TO FIND ME FOR GIVEN

$$\frac{Ae}{A^*} = \frac{0.01}{0.0006} = 16.67 = \frac{1}{Me} \left[\frac{1 + \frac{\gamma_{-1}}{2} Me^2}{\frac{\gamma_{+1}}{2}} \right]^{\frac{\gamma_{+1}}{2(\gamma_{-1})}} \longrightarrow Me = 4.27$$