$$\frac{1.1}{2} \rightarrow 2m(a) = \frac{4m}{3\left(\frac{\dot{a}}{a}\right)^{2}/8\pi R}$$

$$\frac{1}{\alpha^3 \frac{3 \ln^2 \left(-\frac{\alpha m}{\alpha^3} + \alpha n + \frac{(1--\alpha r)}{\alpha^2}\right)}$$

$$\frac{2}{2m+2na^{2}+(1-21)}a$$

$$-) \left(\frac{f(b)-f_{T}(a)}{f_{C}(a)}\right)q^{2} \cdot \left(\frac{f_{C}-f_{T}}{f_{C}}\right)q_{0}^{2}$$

$$-1-2-\tau_{0}$$

$$\Delta T(a) = \frac{1 - 2 - \tau_0}{2M - \frac{\alpha}{\alpha^2} + (1 - 2\tau)}$$

$$\rightarrow \Lambda_{\Lambda}(a) = \frac{1}{1c} = \frac{1}{3\left[\frac{2m}{a^{7}} + 4n + \left(\frac{1-2n}{a^{2}}\right)\right]/8772}$$

$$= \frac{2n}{\left(\frac{2m}{a^{2}} + 2n + \left(\frac{1-2n}{a^{2}}\right)\right)}$$

i) -2m = -27 = 1 = $-2\sqrt{a}$ =) -2m(a) = 1, $-2\sqrt{a} = 0$ a never falls below 0.5. (ii) & (iii) are plotted