differently (I think this is deaner!)

This is the term that

and N= GelM+m) (Kepler3) Both are independent of x.

is different for the halo mass, compared 6 a posit mais sho

away for the hasto M(2 D-x) f as we more and vice versa.

Step 2: Understand what's different

Question hints that you should replace the force from the dark halo mass" - this explains the difference. $\Delta = D$ [Case A] M is a point mass. Then the force as a function of distance is from it is just F = Grall $\Rightarrow F(x) = F(0) + \times \frac{dF}{dx}\Big|_{x=0} + \dots \qquad \text{Taylor expansion.}$ $=\frac{GM}{D^2}+x\left[+\frac{2GM}{D^3}\right]+...$ [Case B] M is now an extended halo described by $\mathcal{M}(\langle r \rangle) = \frac{r v_H}{G} \left(1 - \frac{q_H}{r} \operatorname{arctan} \left(\frac{r}{q_H} \right) \right)$ And the fire is, at distance in $F(r) = \frac{\sqrt{4}}{r} \left(1 - \frac{\alpha_2}{r} \operatorname{arctan}\left(\frac{r}{\alpha_4}\right)\right) \approx \frac{\sqrt{4}}{r}, r \gg \alpha_4 (t)$ F(r) = Gruch where 1/4 can be related to M= M(<D) by By suspection of the forms of (*) and (t), one is a fix white the other is a fix so the perturbed force has a different $\frac{dF}{dx}\Big|_{x=0}$ change. This leads eventually to a different fraction in the solution for $(\frac{z}{b})$.