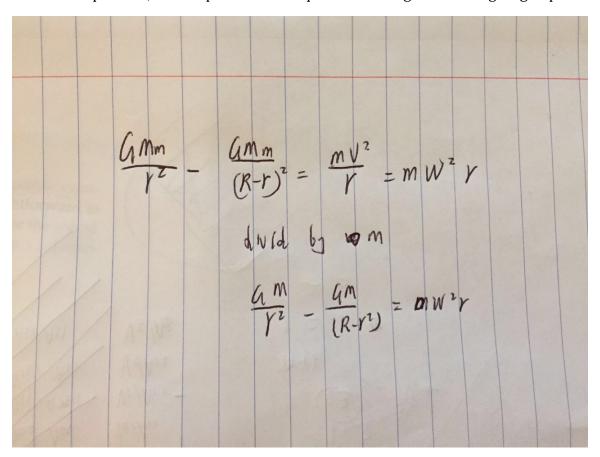
For this question, first prove the equation is right for Lagrange point.



Then for part B I use Newton's method and Its pretty straightfoward with the formula

$$x_1 = x_0 - rac{f(x_0)}{f'(x_0)}\,.$$

and then proceed to target accuracy.