HW14a

Monday, October 3, 2016 2:49 PM

1. $K_A - K_P = -\frac{2}{3}\frac{GMm}{D}$

2. $v_{esc} = \sqrt{\frac{GM}{R}}$ $\quad r = \frac{9}{4}R$

3. $E = -\frac{GMm}{4R}$ $\quad V = \sqrt{\frac{GM}{R}}$)

4. $v_f = \sqrt{v_i^2 - \frac{9}{4}\frac{GM}{R}}$

$F_{net} = -\frac{3}{25}\frac{GMm}{R^2}$

$x = \frac{20}{3}R$