









3) Then $\vec{\tau}_{CM} = \frac{\left[\frac{q_2}{q_2}\right] \cdot p \cdot a^{\frac{1}{2}} + \left[\frac{q_2}{h_3}\right] \cdot p \cdot a \cdot h \cdot \frac{1}{2}(-1)}{pah \cdot \frac{1}{2}}$ $= \frac{\left[\frac{q_2}{q_2}\right] a + \left[\frac{q_2}{h_3}\right] \left(-\frac{h_2}{h_2}\right)}{a - h_2} = \frac{\left[\frac{a_2}{q_2} - ah_4\right] \cdot \frac{1}{a - 42}}{a^2 - h_2^2} = \frac{\left[\frac{q_2}{q_2} - h_2^2\right] \cdot \frac{1}{a - 42}}{a - h_2} = \frac{\left[\frac{q_2}{q_2} - h_2^2\right] \cdot \frac{1}{a - 42}}{a - h_2^2} = \frac{\left[\frac{q_2}{q_2} - h_2^2\right] \cdot \frac{1}{a - 42}}{a - h_2^2} = \frac{\left[\frac{q_2}{q_2} - h_2^2\right] \cdot \frac{1}{a - 42}}{a - h_2^2} = \frac{\left[\frac{q_2}{q_2} - h_2^2\right] \cdot \frac{1}{a - 42}}{a - h_2^2} = \frac{\left[\frac{q_2}{q_2} - h_2^2\right] \cdot \frac{1}{a - 42}}{a - h_2^2} = \frac{\left[\frac{q_2}{q_2} - h_2^2\right] \cdot \frac{1}{a - 42}}{a - h_2^2} = \frac{\left[\frac{q_2}{q_2} - h_2^2\right] \cdot \frac{1}{a - 42}}{a - h_2^2} = \frac{\left[\frac{q_2}{q_2} - h_2^2\right] \cdot \frac{1}{a - 42}}{a - h_2^2} = \frac{\left[\frac{q_2}{q_2} - h_2^2\right] \cdot \frac{1}{a - 42}}{a - h_2^2} = \frac{\left[\frac{q_2}{q_2} - h_2^2\right] \cdot \frac{1}{a - 42}}{a - h_2^2} = \frac{\left[\frac{q_2}{q_2} - h_2^2\right] \cdot \frac{1}{a - 42}}{a - h_2^2} = \frac{\left[\frac{q_2}{q_2} - h_2^2\right] \cdot \frac{1}{a - 42}}{a - h_2^2} = \frac{\left[\frac{q_2}{q_2} - h_2^2\right] \cdot \frac{1}{a - 42}}{a - h_2^2} = \frac{\left[\frac{q_2}{q_2} - h_2^2\right] \cdot \frac{1}{a - 42}}{a - h_2^2} = \frac{\left[\frac{q_2}{q_2} - h_2^2\right] \cdot \frac{1}{a - 42}}{a - h_2^2} = \frac{\left[\frac{q_2}{q_2} - h_2^2\right] \cdot \frac{1}{a - 42}}{a - h_2^2} = \frac{\left[\frac{q_2}{q_2} - h_2^2\right] \cdot \frac{1}{a - 42}}{a - h_2^2} = \frac{\left[\frac{q_2}{q_2} - h_2^2\right] \cdot \frac{1}{a - 42}}{a - h_2^2} = \frac{\left[\frac{q_2}{q_2} - h_2^2\right] \cdot \frac{1}{a - 42}}{a - h_2^2} = \frac{\left[\frac{q_2}{q_2} - h_2^2\right] \cdot \frac{1}{a - 42}}{a - h_2^2} = \frac{\left[\frac{q_2}{q_2} - h_2^2\right] \cdot \frac{1}{a - 42}}{a - h_2^2} = \frac{\left[\frac{q_2}{q_2} - h_2^2\right] \cdot \frac{1}{a - 42}}{a - h_2^2} = \frac{\left[\frac{q_2}{q_2} - h_2^2\right] \cdot \frac{1}{a - 42}}{a - h_2^2} = \frac{\left[\frac{q_2}{q_2} - h_2^2\right] \cdot \frac{1}{a - 42}}{a - h_2^2} = \frac{\left[\frac{q_2}{q_2} - h_2^2\right] \cdot \frac{1}{a - 42}}{a - h_2^2} = \frac{\left[\frac{q_2}{q_2} - h_2^2\right] \cdot \frac{1}{a - 42}}{a - h_2^2} = \frac{\left[\frac{q_2}{q_2} - h_2^2\right] \cdot \frac{1}{a - 42}}{a - h_2^2} = \frac{\left[\frac{q_2}{q_2} - h_2^2\right] \cdot \frac{1}{a - 42}}{a - h_2^2} = \frac{\left[\frac{q_2}{q_2} - h_2^2\right] \cdot \frac{1}{a - 42}}{a - h_2^2} = \frac{\left[\frac{q_2}{q_2} - h_2^2\right] \cdot \frac{1}{a - 42}}{a - h_2^2} = \frac{\left[\frac{q_2}{q_2} - h_2^2\right] \cdot \frac{1}{a - 42}}{a - h_2^2}}$ Then $\frac{a^2}{2} - \frac{h^2}{6} = h(a - \frac{h}{2})$, $\frac{b^2}{3} + ha + \frac{a^2}{1} = 0$ $\frac{a^2}{2} + \frac{a^2}{3} = \frac{a^2}{3}$ $h_{1/2} = \frac{a \pm \frac{a}{\sqrt{3}}}{2} = \frac{3}{2} a \left[1 \pm \frac{1}{\sqrt{3}} \right]$ Since h < a, $h = \frac{3}{2}a(1 - \frac{1}{\sqrt{3}}) = \frac{3 - \sqrt{3}}{2}a^3$.