Saturday, November 5, 2022 6:06 PM

$$m_e = 7$$

$$x = ct \cos \theta, t = t_1, x = ct'\cos \theta'$$

$$x'=\gamma(x-vt)=\gamma(ct\cos\theta-vt)=\gamma(c\cdot\cos\theta-v)$$

$$\cos \theta = \frac{\cos \theta - \frac{1}{2}}{1 - \frac{1}{2}\cos \theta} = \frac{\cos \theta - \frac{1}{3}}{1 - \frac{1}{3}\cos \theta}$$