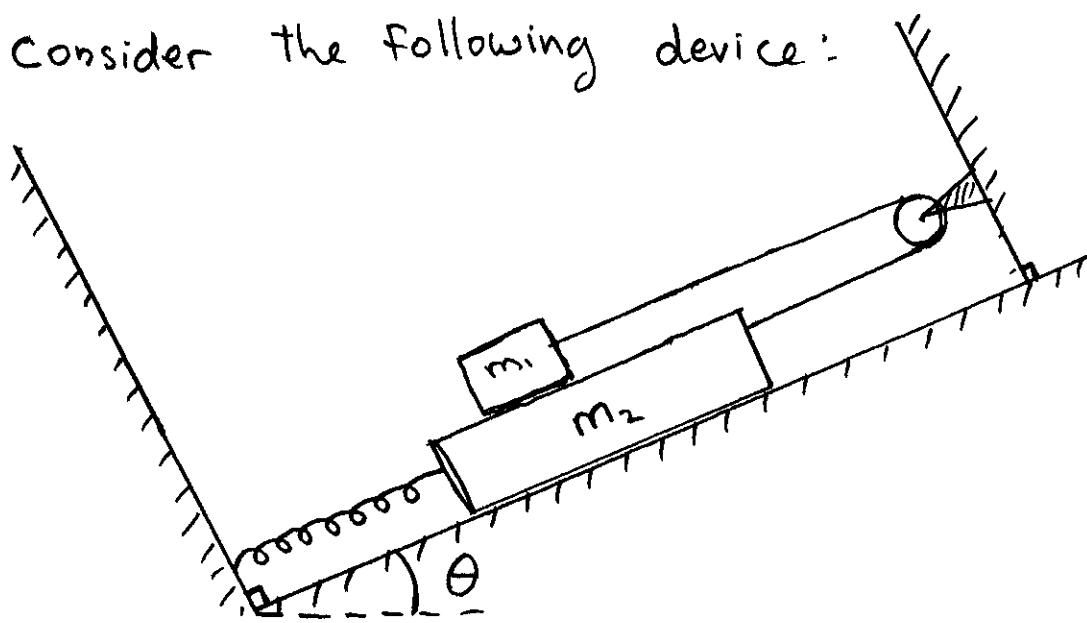


Consider the following device:



The masses, m_1 & m_2 , are known. As well, the angle, θ , and the spring constant, k , are known. The coefficient of kinetic friction between m_2 & the platform is M_{K_2} . The coefficient of kinetic friction between m_1 & m_2 is M_{K_1} .

The system is released from rest. Assume m_2 slides down the incline & the spring is initially unstretched. Calculate the distance that m_1 moves before coming to a stop.