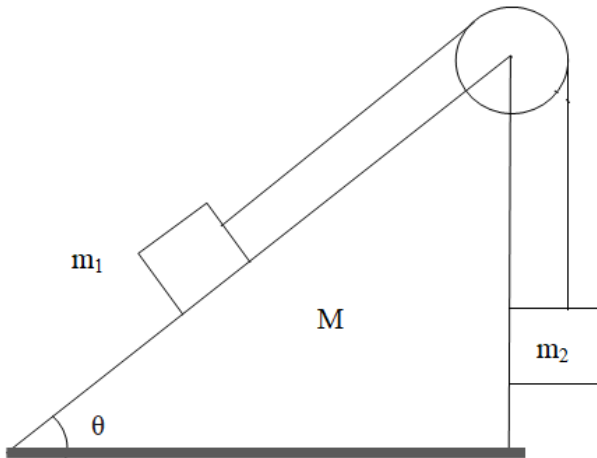
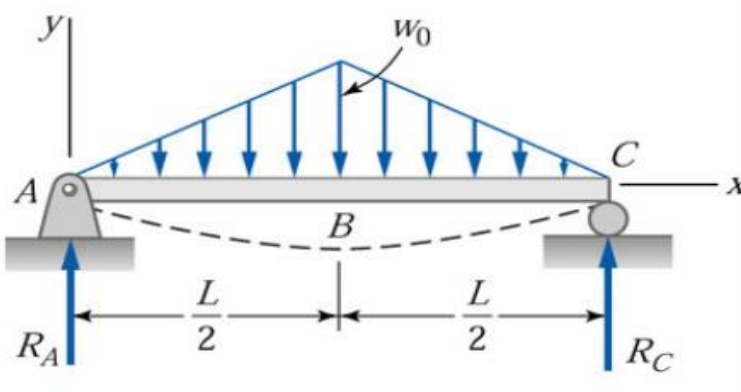


Assignment 2

Q1. Draw the free body diagram for the pulley-mass system as shown in figure below. Determine the ratio m_1/m_2 that ensures stationary condition of the system. All surfaces are frictionless and the pulley and strings are assumed to be massless.



Q2. Draw the SFD and BMD diagram for the loaded beam as shown in figure below.



Q3. A beam with a hinge is loaded as shown below. Draw the SFD and BMD diagram.

