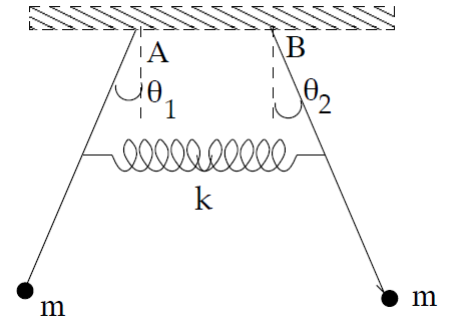


Birzeit University
 Department of Physics
 Physics of vibrations and waves, Phys236
 Spring 2019
 Homework 2: Due date April. 9th 2019

1. Two identical pendulums of length L and mass m , at the mid-points of the pendulum they are connected by a spring of stiffness s . as shown in the figure.



- (a) Find the normal mode frequencies.
 (b) Describe the motion of the for each frequency

2. For the triple pendulum shown below find the normal mode frequencies and describe the motion.

