

7.15) A pendulum consists of a mass " m " suspended by a massless spring with unextended length " b " and spring constant " k ". Find Lagrange's equations of motion.

* Assume the pendulum is constrained to swing in a single plane.

Note that when a problem says "find the Lagrange equations"

You do not need to solve them. However, you might want to think about the solutions enough to decide if the equations look reasonable.