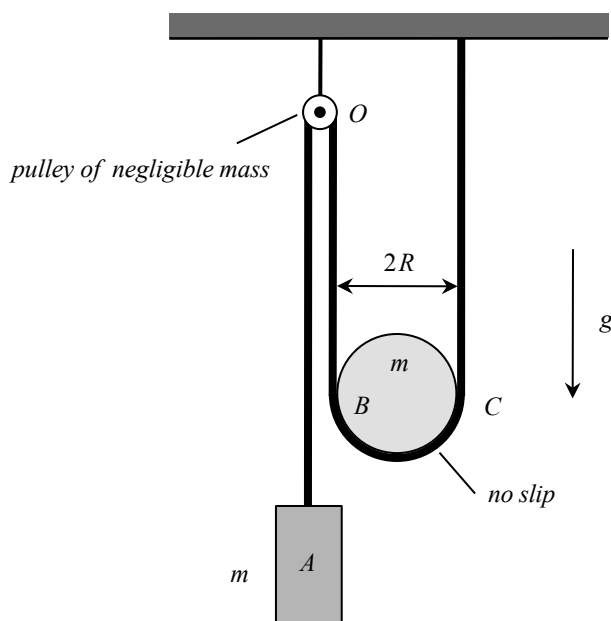## Homework H5.O

Given: A homogeneous disk having a mass m and outer radius R is supported by the cable-pulley system shown, where block A (with a mass of m) is attached to the free end of the cable. The disk does not slip on the cable as the system moves.

Find: Determine the acceleration of block A on release.

Use the following parameters in your analysis: $m = 20$ kg and $R = 0.2$ m.