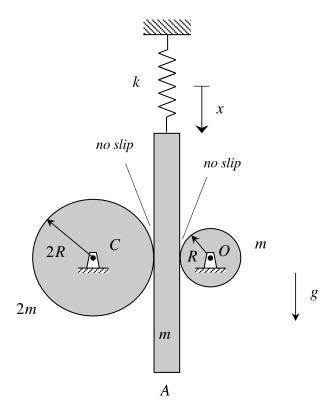
## Homework H6.B

Given: Block A (of mass m) is attached to a ground spring with a stiffness of k. Block A is also in rolling contact with a pair of homogeneous disks (of masses and radii of m and R, and 2m and 2R) pinned to ground at their centers O and C. As A moves in the vertical direction, it does not slip with respect to the disks. Let x represent the vertical motion of A where x = 0 when the spring is unstretched.

**Find:** For this problem, derive the dynamical equation of motion for the system in terms of the coordinate x.



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