## Chapter 17, Problem 1.

It is known that 1500 revolutions are required for the 2720-kg flywheel to coast to rest from an angular velocity of 300 rpm. Knowing that the radius of gyration of the flywheel is 914 mm, determine the average magnitude of the couple due to kinetic friction in the bearings.

## Chapter 17, Problem 11.



### Chapter 17, Problem 15.



### Chapter 17, Problem 30.



# Chapter 17, Problem 35.



### PROBLEM 17.C2



Two 3-kg slender rods are welded to the edge of a 4-kg uniform disk as shown. The assembly is released from rest in the position shown and swings freely about the pivot C. Calculate and plot the angular velocity of the assembly after it has rotated through an angle  $\theta$ , for values of  $\theta$  from 0 to  $\theta_m$ , the angle of maximum rotation. Determine the maximum angular velocity of the assembly and the corresponding value of  $\theta$ .