

Homework H.4.J

Given: Particles A and B (having masses of m and $2m$, respectively) are attached to a lightweight rigid bar as shown in the figure. A constant horizontal force F acts on particle A. At the initial state of $\theta = 0^\circ$, the system is at rest.

Find: Determine the angular speed of the bar as a function of θ and in terms of the parameters of the problem.

