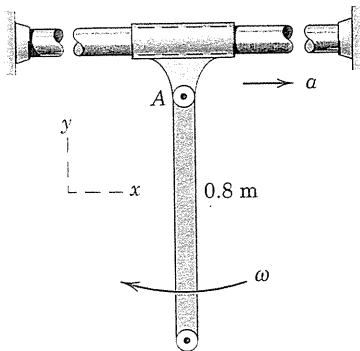


6/93

End A of the uniform 5-kg bar is pinned freely to the collar, which has an acceleration  $a = 4 \text{ m/s}^2$  along the fixed horizontal shaft. If the bar has a clockwise angular velocity  $\omega = 2 \text{ rad/s}$  as it swings past the vertical, determine the components of the force on the bar at A for this instant.

Ans.  $A_x = 5 \text{ N}$ ,  $A_y = 57.1 \text{ N}$



Problem 6/93