

PROBLEM 12.39

A 2-lb collar *C* slides without friction along the rod *OA* and is attached to rod *BC* by a frictionless pin. The rods rotate in the horizontal plane. At the instant shown *BC* is rotating counterclockwise and the speed of *C* is 3 ft/s, increasing at a rate of 4 ft/s^2 . Determine at this instant, (*a*) the tension in rod *BC*, (*b*) the force exerted by the collar on rod *OA*.

