*14–68. The 5-kg collar has a velocity of 5 m/s to the right when it is at A. It then travels down along the smooth guide. Determine the speed of the collar when it reaches point B, which is located just before the end of the curved portion of the rod. The spring has an unstretched length of 100 mm and B is located just before the end of the curved portion of the rod. Also, what is the normal force on the collar at this instant?

14–69. The 5-kg collar has a velocity of 5 m/s to the right when it is at A. It then travels along the smooth guide. Determine its speed when it reaches point B, which is located just before the end of the curved portion of the rod, and the normal force it exerts on the rod at this point. The spring has an unstretched length of 100 mm.

Problems 14–68/69