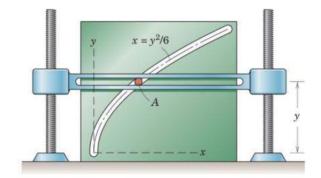
1) For a certain interval of motion, the pin A is forced to move in the fixed parabolic slot by the horizontal slotted arm which is elevated in the y-direction at a constant rate of 3 in/s. All measurements are in inches and seconds. Calculate the velocity v and acceleration a of pin A when x = 6 in.



15 marks