200 mm  **θ**

The fixed horizontal guide carries a pin P whose motion is controlled by the rotating slotted arm OA. If the arm is revolving about O at the constant rate

Of 2 radians/sec (angular velocity) for the for the interval allowed by the horizontal guide determine the magnitudes of the velocity and acceleration of the slider (red circle) in the slot for the instant when **θ = 60 degrees**

**Also find the components of the velocity and acceleration.**