21-P-KM-GD-011



A particle travels along a semi-circular path of radius I m. The particle has an angular velocity of Q and an angular acceleration of Q.

What are the radial and fransverse components of velocity and acceleration for the particle?

given r, Ö, Ö

Find
Vr, Vo, Ar, a.

C= [

 $V_{\Gamma} = \dot{\Gamma} = 0$ $V_{\theta} = \Gamma \dot{\theta}$ $A_{\Gamma} = \ddot{\Gamma} - \Gamma \dot{\theta}^{2} = -\Gamma \dot{\theta}^{2}$ $A_{\theta} = \Gamma \dot{\theta}$