مكنى ديناميليا Self- Coordinates 77 , الالمانيات الذات A = うじじつ 5=5(4) Tradectory had adoler V= 51 !! i = acroply , (| 1/8/ 5 di=4j F=3j+34j=3j+8di 354= 33 34 35 - V3 18 = P = Vadis (ixial)

(الحظارة

EX] Prove that the angular acceleration can be Jetermined by the Pollow: V dv 12 ds 45010)7

Angular acceleration is(4) and islaminated

$$\ddot{\psi} = \frac{\partial}{\partial s} \left(\frac{V}{V} \right) \frac{\partial s}{\partial t} = \frac{V \frac{\partial V}{\partial s} P}{\partial s} - \frac{\partial s}{\partial s} V^2$$