## Acrignment-3 (Dal For it to be confort, M, M2, M3 are constant: du; =0 (10=1,2,3) A QUE = QUI PY QUE T + QUE R = 0. (b) Til= Thistast = constant (fack) # 4/2+113+112=K3 differentiate wg.t tot:-Medur + uzdez + uzdez = 0. D Model = 0 Deoved (c) For vector function to not change the discection, ets tangent should be 11 かけい Tixde = 0 And

2)(a) heybelebolic functions:  $\vec{r} = finh(t) \vec{q} + coeh(t) \vec{b}$   $d\vec{s} = coeh | t | \vec{q} + finh(t) \vec{b}$   $d\vec{t} = coeh | t | \vec{q} + finh(t) \vec{b}$ 

0-12 = finh(t) of t cosh(t) b= 8 And





























