Quadratic programming for task priority Time doubtive of a projected vector on a given frame. ; s(t) = d; s(t) = D; s(t) The differentiation happens after the projection ζ(t) = ∫ (ς (γ) dγ + (χφ) Thise order demotes 3 S(todt) = 3 S(1) + 3 (t) dt + O (dt) Approximation of the state. Note that you can't do the diff with an drever in board then magazine 5 5(t) 7 BR 35(t) (NB) = D(2R) 566) , 2RD(55(4))= = 6 R 5 S(b) + 6 R 5 S(b) = complete of different states and series of the force D2 S= D6 S+ W6/3 x S

| S| = (>0 2nd +=0 the aunt to differentiate aut. (2) Consider mother tune <h> such that: This means that I have attacked a frame to ble vector s which is rotating but not changing in wodulor. If now apply the mother of oil the formles, Destwarx & Ych> s.t. Dhs = \$ let's expess this like Wbg where Why = wsy + hz Vz ell Vs onty vector of s The minimum hours solution 15: Dest ws Xs Note without us which weeks the spen of other contains. admittane / impodence control 3= no |n|=1 07 g Dos : Do (no) = no +0 Do(n) rligue to pertoyoral bos $D_{2} \stackrel{3}{=} n (n \cdot) D_{2} \stackrel{3}{=} + (1 - n(n \cdot)) D_{3} \stackrel{3}{=}$ $U_{3} \stackrel{4}{=} n (n \cdot) D_{2} \stackrel{3}{=} + (1 - n(n \cdot)) D_{3} \stackrel{3}{=}$ $U_{3} \stackrel{4}{=} n (n \cdot) D_{2} \stackrel{3}{=} + (1 - n(n \cdot)) D_{3} \stackrel{3}{=} n (n \cdot) D_{2} \stackrel{3}{=} n (n \cdot) D_{3} \stackrel{3$ (t = n. Des o Dan = (1 -n(h.)) Das

Recolling that: Dz(n) = wn/2 x n Then substituting Do(2) = no to wyo x D = no + wyo x n p≤n 0 (2) C(5) Wrtcer and not do have the rector is D, p= n0+00, n the exis of votation, so connon De p = [n(n.) + N=(0)] was less of ration, so con-c $N_2(\theta) \stackrel{A}{=} \stackrel{\Phi}{=} \begin{bmatrix} \frac{1}{2} \\ t_{2n}(\frac{\varphi}{2}) \end{bmatrix} \begin{bmatrix} I - n(n) \end{bmatrix}$ Is because of this reasonly orthogost to a p= - lp -> desired behaviour to wach the youl a has to be aliqued with P alix (NS:38) TE you take on we wish denotes not styred with a you also whe see natition veilor votile.