Lewyer 1. dileiano malena, mexamina 1687 2 Horomore 1. P3 + cenculation R3 (ebitingoso inp-bo)  $\mathcal{L} : \mathbb{R} \to \mathbb{R}^3$ 3. (m, F) - Mam, morria 51 52 4. (M1, F1), (M2, F2) III 5 = - F 2 11 F 7 - F 2 5. MF = F, F = dF Usible per elevente de mobiperarement ypanis.  $q = \begin{bmatrix} q_1 \\ q_n \end{bmatrix} \begin{cases} \exists_i (t, q, q, ..., q^{(n)}) = 0 \\ i = t, n \end{cases}$ t-t(+',9') 9=9(+',9') (2)121, ceren (5, (+1, 91, 94))=0 Cuencua

Conpososiganouseur repersorperum Spire 5 171=T=1 る=でxh S-genra gegue >= = = (S(t)) V=dr-dr.s  $\frac{d\vec{r}}{ds} = \vec{r} = \vec{s} = V$ V = 1/5 T W=V=VT+V.dr W=VT+V2n

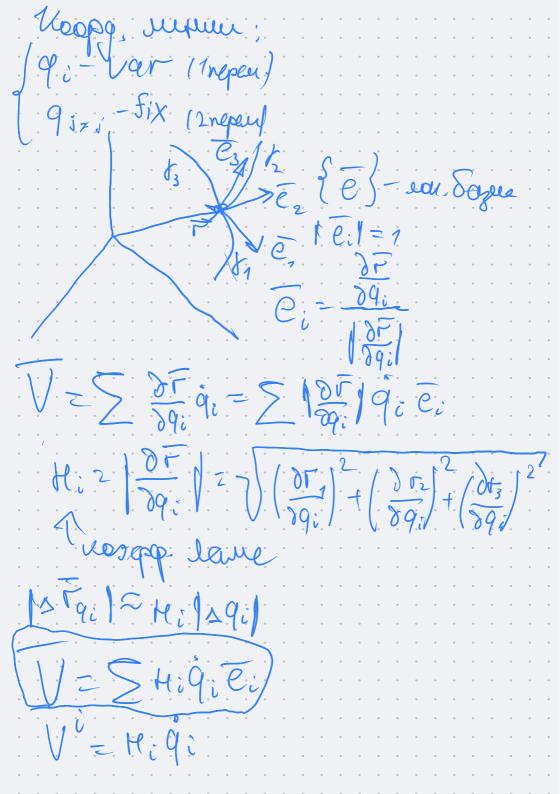
maintergrient the priarrence your perme

The series as 
$$S = \frac{dS}{S}$$

The series  $S = \frac{dS}{S}$ 

The series  $\frac{dS}{S}$ 

The series  $\frac{$ 



By weing well and 
$$i V^2 = 8^2 + 5^2 i 2^2 + 2^2$$
 $i M N = \{e_i \mid e_i \} \{e_i \mid e_$ 

 $V = \sum H_i H_j \hat{q}_i \hat{q}_j (\overline{e}_i, \overline{e}_j)$ 

Een {ei}-046=>(ei, ej) 20is

V= ZHiqi-gla opmow. Egyuss

