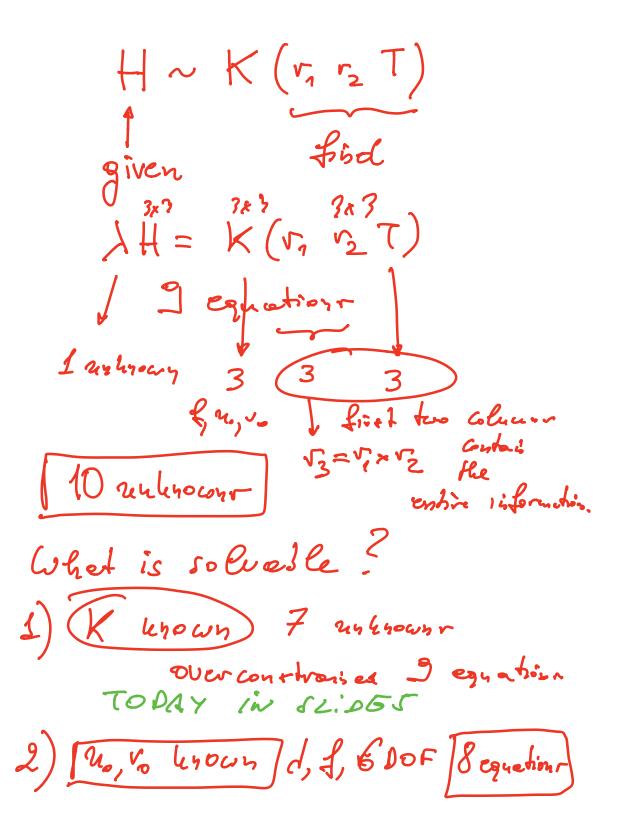
Extract pose (R,T) from a projective treurformation H - 3 orthogoral V.P. => K (fry, vo) - Mapping between two planes where no inhinnics (k) or exhinis (R, T) were recold. 1) Given N24 correspondences Setveen world plane and iluege plane => H 2) H = R, T Where in the coursers: - Loundehin of AR

- foundation of AR - localization of roddn (corr etc.)

3×3 that wfo, that'r why we $\frac{Z_{\omega}=0}{\lambda\left(\frac{\omega}{\omega}\right)}=K\left(\frac{x_{1}}{x_{w}}+\frac{y_{2}}{x_{w}}+\frac{y_{3}}{x_{1}}\cdot0+T\cdot W_{w}\right)$

desop frebrenst or for world"

und heep world or upper case! $\mathcal{J}\begin{pmatrix} u \\ v \end{pmatrix} = \mathcal{K} \begin{pmatrix} r_1 & r_2 & T \end{pmatrix} \begin{pmatrix} v \\ w \end{pmatrix}$ proj. transformatie in any isvertible 3x3 hoter's 7 Is Hibrartile det(H) = det(K)det(n 12T) $= f^{2}(x_{1} \times z_{2})^{T}T$ = @ (5xc)



"H=K(1,27) 1) core K unowy (h, h2 h3) = (r, r T) (ha h2 haxh2)= (r, r2 3) Moth problem: we know 5 = 0 Given two orbitany rector has and he find the closest vector that one perpendicular to each other. (|| vall = || vall = 1

alternative (h. hz) = ReSV Sauce sol. elfenobre (h, h, h) = USV not sour sol. Why do we try to fish the Closest ? You click you compute of, and then KH = ("):) if they are perpendicular you en done 1 = 1/2 1 2 = 1/2 1

Because of clicking and other Much en'cal or sensor error li and his will not be I. shi closest son (4, 42 43)= USVT orthogonal solution for votation is R=U(010)V Oodeffert) det (R) = det (U) det (UV) det(V) = def(2) = def(v) = 1

Theorem we used ir : dct(4) = 0 erg unin $||R-A|| = uV^T$ $R^TR=I$ when A=USwhen A=USV. What about T? (h, h2 (h3)) = (5 12 T) coe localised VVV