Ingenuity flight: VIO + 1P Distance Altimeter

exem 2 50% + 50%

S(u 3D ilweye veloción procerniz
Goussius

Geolichy Revière 1) Two coldrated vecr SLIL given: consposedences
in calibrated convolibiles (P, 9) \$16d: (R,T), 2,4 29 = Ryp+T RFR=I 229 = R(27)p+27 if T, d of one solution then 27, 21, 24 are. solution, too.

Duother corplenation: if Tsehinks 97 (7x Rp)=0 Re 27 satisfies it, too.

2) what if the course rendergoes a prive votations but we do not lenow it?

9 TEP =0 => E=? but proRg is reality. FR9 = 0 et the Solution

fort six columns.

in prochice: we check if

IH: party home for all

come, you derces.

(3) if E = T the

E is slepw-symmetric.

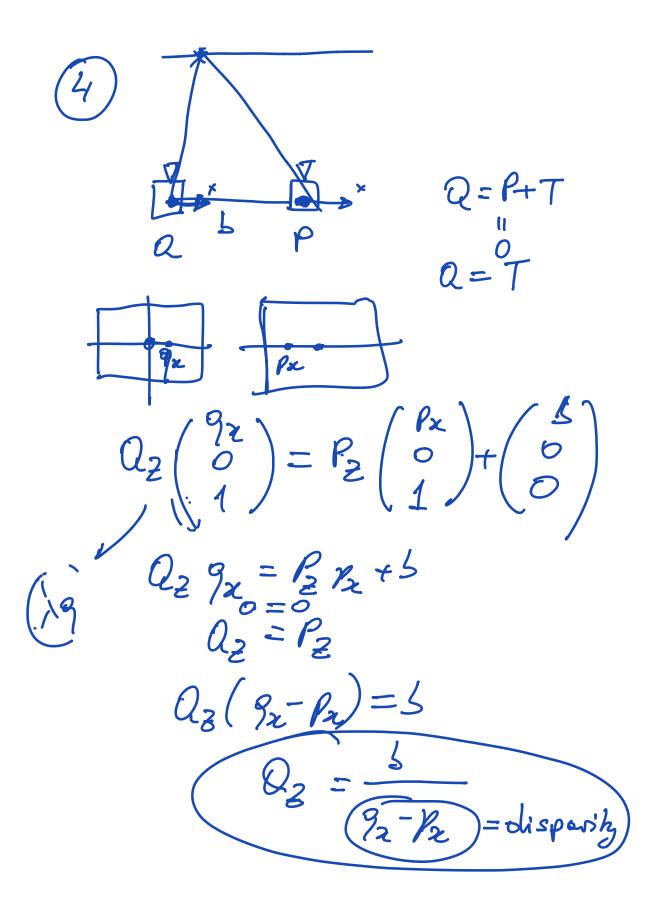
 $E^TT=0$ 

The question is ", ll-pored become if (T, R=I)
is a solution than

(T, R<sub>T</sub>(186)) it also a solution.

Show symm = show symm. RF(180°)

Kir still courtre a pine trans



6. 
$$\sigma_{\lambda} = \sigma_{2} > 0$$

$$\sigma_{3} = 0$$

given: (000e) cd0) tisd: x, B (you convot find t because it in the magnitude of the translation. Q = f(000d  $b = -tsisd = \int da = -\frac{3}{2}$  $c = -t\cos(\alpha + b)$   $tou(\alpha + b) = -\frac{d}{c}$ ol = t sis (x+b)

8. Sicuriller le 7.

9. 
$$E = \begin{pmatrix} 0 & -1 & 1 \\ 1 & 0 & 0 \end{pmatrix}$$

$$T = \begin{pmatrix} +1 \\ +1 \end{pmatrix} \quad E \quad T = 0$$

$$R = I \quad \text{or} \quad R = R_{7}(\pi)$$

$$T = \begin{pmatrix} -1 \\ -1 \end{pmatrix} \quad \begin{cases} 4 & \text{foliations} \end{cases}$$

$$V_{2} = \begin{cases} -1 \\ 2 \end{cases} \quad (-1 \\ 2 \end{cases} \quad (-1$$

 $\frac{z}{z} = \lambda \left( \frac{z}{z} - FoE \right)$   $\frac{z}{z} - FoE$ where  $\frac{z}{z} - FoE$   $\frac{z}{z} - FoE$ 

11.  $77C = \frac{Z}{Vz} = \frac{Z}{Vz}$   $\vec{z} = \frac{\sqrt{3}}{2} (\vec{z} - \vec{FoE})$   $\frac{Z}{Vz} = \frac{1/\vec{z} - \vec{FoE}}{|\vec{z}|}$ 

- <u>distance from FOE</u> megnitude of flow does not hold for  $\vec{x} = FoE$ 

12.  $(z) = \frac{1}{2}AV + BD$ (i)-BD =  $\frac{1}{2}AV$ = 1/2 AV find where all flow vector interrect!=V

Owl you Nr. 2

4. Ag=Ryp+T  $\left(q - R_{P}\right)\left(\frac{\partial}{\partial y}\right) = 7$   $3 \times 2 \quad 2 \times 1$  $\binom{2}{4} = \binom{2}{3} - \binom{2}{7} T$ 2. If g~Rp Hen ony  $E = \hat{\alpha}R$ for orbitary aERS satistics gtp=0

proof: 9TaRp = 972 RR9 = 9729 = 97(2×9) = 0 /a.

Herre here exists e three paremetric family of solutions E=2R wher a=(ex, ey, ez) are the 3 perceneters