By defination of epipoles

where Xo, Xo, are Camera Centre.

Now,

then,

$$X_0 = \begin{bmatrix} 0 \\ 1 \end{bmatrix}$$

Putting 3 in 1 2 9 in 1

Given 
$$f = [e'] \times k'R K^{-1}$$
 $f = e' \times k'R K^{-1}$ 

How plying both sides by  $x$ .

 $f \times = e' \times k'R K^{-1} \times k'$ 

How from homography,

 $x_2 = k_2 R_2 R_1^{-1} k_1^{-1} \times k'$ 

Here

 $R_1 = I$ ,  $R_2 = R$ ,  $k_1 = k'$ ,  $k_1 = k'$ ,  $k_1 = k'$ 
 $k' = k' R K^{-1} \times k'$ 

Hence  $f \times = e' \times x'$ 

0-27 Given F=SpR promote the a 2x'= K2" x' 2k = K1 x where x & x are point in Image taken from Camera ( & 2 respectively. Now we know that ( from question !) e'xxx=fxx e'xxx'=SbRxx aud. 4. · · · e'xxx'=bxRxx Comparing both sides, we get XX'=RXK K2 - X' = R K; K x'= Kz RKi'x which is me from homography. Henry fre but idumn of k i denoted by b, is one 8) the epipoles.

Given 4 equations,

where i is the frame; is the co-ordinate in a

particular from

Pi be the projection of its frame tibe rue translation of its frame.

Now from eq D

-Comporing eq's 
$$G$$
 &  $G$ 
 $\overline{X}_{i} = -t_{i} \lambda_{i}^{T}$ 

Similarly

 $\overline{Y}_{i} = -t_{i} \lambda_{i}^{T}$ 

Henu,

 $t = (\overline{X}_{i}, \overline{X}_{2} \cdots \overline{X}_{p}, \overline{Y}_{j}, \overline{Y}_{2} \cdots \overline{Y}_{p})$ 

$$x_{1} = \begin{cases} f_{13} & f_{13} \\ f_{13} & f_{13} \\ f_{13} & f_{13} \end{cases} f_{13} \\ f_{13} & f_{13} & f_{13} \\ f_{13} & f_{13} \\ f_{13} & f_{13} & f_{13} \\ f_{13} &$$

