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$$A = \begin{cases} \frac{1}{2} \frac{1}{4} \\ \frac{1}{2} \frac{1}{5} \\ \frac{1}{2} \frac{1}{5} \end{cases} \qquad b = \begin{cases} \frac{1}{2} \frac{1}{5} \left( h_{1}(\bar{x}) - z_{1} \right) \\ \frac{1}{2} \frac{1}{5} \frac{1}{5} \frac{1}{5} \frac{1}{5} \left( h_{1}(\bar{x}) - z_{1} \right) \\ \frac{1}{2} \frac{1}{5} \frac{1}{5}$$

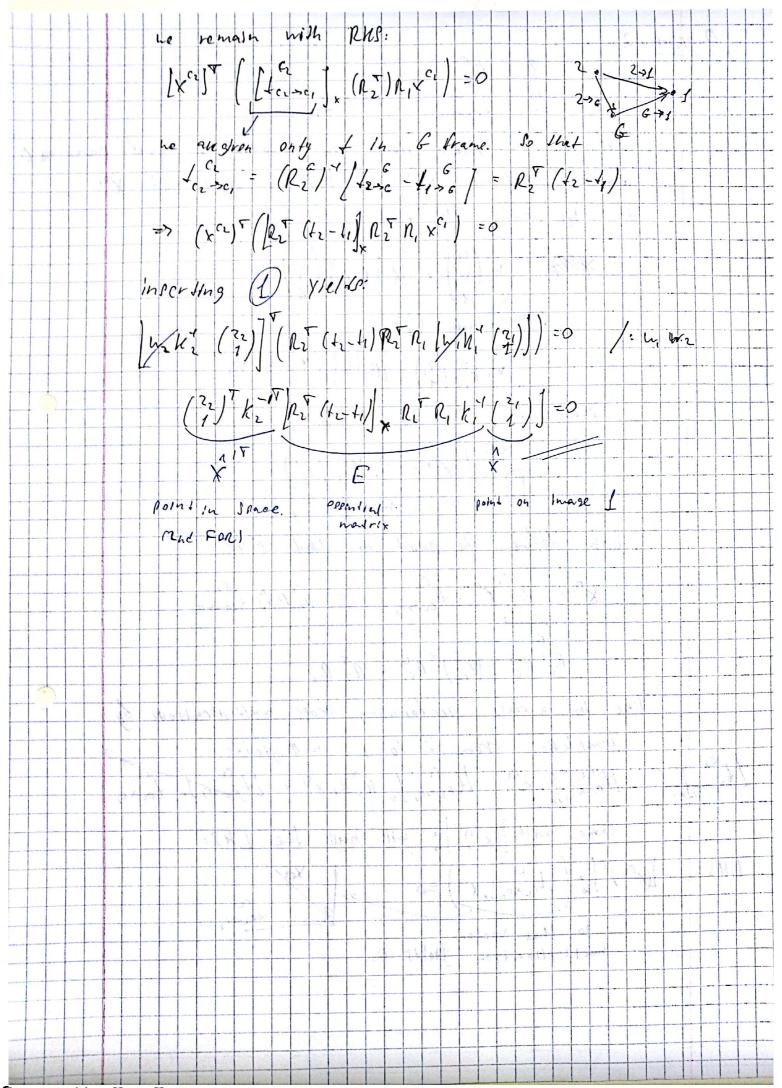
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c) p(x, 12, 2,2)-18:50 (2225 103) 120B Z 125 P 18 18 (1) D 18:58 N. 2 12 -12 1/2 (ii) 12/-51 010 27 12-4 16 (iii) D p(21,22/x,l,2).p(x,l/2) p(2,2,1x)p(x,2/2) p(20, 22 /2) 12(21,22) p(2,1x);p(x,21z) p(2n) p(22) p(21/x)p(2/x,2).p(2/x,2).p(x,2) P(20) p(22) · p(2) p(2,1x).p(2)1x).p(2/x,8/p(x).p(x) p(z1)p(z2)p(2) JE 71'€ \_31 773> 201 C 900 € 165- 16 4) · -100 / 100 K p(x, g(z1, 22, 2) = p(21, 22 | x, g, z) · p(x, g | 2)
p(21, 22 | 2) = 7(21,22(x) (p(21,x,9), (x,9)) = p(z1, z2 x)p(x, 2 z) p (21,22) p(21,22) (= )(2) p(21,2) x).p(2/x,l).p(x).p(l) 7(20, 22)7(2) =  $p(x|z_1,z_2) \cdot p(z|x,0) \cdot p(l)$ 

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Larymax (p(x(21,22)p(s/x))p(e)) - organ (11x-11/2 + 112-11(x, 2)112 + 111-1011210) = ory-in (115=(x+1112+115=(2-11(x,2)112-15=(1-13)11) a foot 183,50 m 1133 1 600 b x = x = 1 = 2 = 2 = 1 = 2 2-8(x,l)= 2-1(z = 1x, l=1)= 2-8(x,l)- Hxax-Hell x->=== +1x-> Hx = 0x11(x, 8) |x, 8 1-6=2-01-10 He = Ve 11 (x. e) | x, ē 1 A (Ax)-b11  $A = \begin{pmatrix} -\frac{1}{2} & -\frac{$ I = ATA = (H, TE) Hx = 51 H, TE, Hx H, 557 He He 5-7 He 15-7

Question 2 Siven: R: - RG 1=1.2 1; = 1c; erc defining a game point in camera 2 and camera 1: denote point as x in FOR of cam 2 and xer In Ict FOR. le thet: notal on some = (2) w, h'(z) = [n, t] (x) = xSame Ler Cam 2. Po thert: ( ) X c, = L, K, ( ) ( ) ( ) ( ) ( ) ( ) how define the point in 2And ROR:  $X^{c_1} = R^{c_1} X^{c_1} + C_1 \qquad = R^{\tau}_2 R^{c_1}_{xx} + C_1 \Rightarrow c,$ RC RC = (RC) 1 RC = R2 R, like in a class per horning cross multiplication by same with (x cz) " will nell the LHS: LUS: Ker John Charles Acres Co nultiplication youlds O.



Question 2-6 p(x, X, 18, 2) = p(2, 2, 1 × 1 × 1) p(x, x) d 22 2 P(2, 22) V, x2) P(x, x2) Camera Roles are independent => Pro, x2 = P(x,) P(x) which are siren as prior distributions what is left is to model plz, 22 18, x2) no one loshing her MAD for (x, en) MAP = a+3 hrex (p(x, x2 | Z, Z2)) = = arg min | Z - P(a) |12 + |14, - M, |12 + |142- Mr Hz where Lix nos taken from olgan vation model Z= S(x) + V ~ N (f(x), Ex) the lerm @ has to be minimized It departles the observation error Same as the epipolar constraint, which in Ideal case without any noise is O. Ro We can replace these 2 can ditions, and get relation to the epinolan contraint. P(x, , v) ~ p(h (2, 32 x, x2) p(x1) p(x2) x, 21(4, 5,) X2 ~ N(M2, Zz) 1/2, 22 x, x, 1 ~ N(D, Eep) argnex = 200 (p(x, x2/2, Z2) = = arg mun //h (7, 72 x, x) // = + 11x, -4, 1 = + 11x, -112 11 =

$$f = (K^{*})^{-1} \mathcal{E}(K^{T})^{-1}$$

$$t = (t_{x}, t_{y}, t_{z})$$

$$(t)_{x} = (0 - t_{z}, t_{y})$$

$$t_{z} = (t_{z}, t_{y}, t_{z})$$

$$t_{z} = (t_{z}, t_{y}, t_{z})$$