Homework #2 Since we are working in himogeneous coordinates, the relationship between two corresponding points X and x' can be re-written as (R2 1) where c is any mon-zero constant (u v i) Trepresents x' (x y 1) T represents x and H = hy hs h6 Dividing the first row of eq. 1 by the third row and the second row by the third row we get the Pollowing two equations: -h,x-hzy-h3 + (h7x+ h8y+ ha)u=0 - hux - hsy - hp + (hix + hsy + ha) u = 0 Now it can be written in matrix form as A9=0 where A = \[-x -y -1 0 0 0 ux uy u \] LO O 0 -x -y -1 Vx Vy VA and H= [h. hz hs hy hs ha hz ha ha]T The 10 Nullspace of A 15 the Solution space for h The full rank of A is 8 if there are perfect corresponding points.