Problem 4 b) (ver a 4x4 matrix H representing a projective transformation in 3D space prove that the functions matrices corresponding to the two point of comma matricer (M, M') and (MH, MH') are the Same. Given a 3D point P in the real world, we can write the value of P in each camera space as: D= W.D . = W.D When the canera space is transformed to (MH MH) We can observe the transformation of the point P as:

P = H'P P' = H'P' Finally, PH = MHP-P = MP and = WHH - P - MD' Therefore the fundamental matrices corresponding to the top poirs of contra matrices are the same.