Coneyl EREM Sheikh Mastern Farang My Enterel Hague

Line = we need at least 2 points because I point is possed by infinise number of lines Circle = 1 pant comes be train and 2 points crowne line so that we next askerst 3 points which do not lien on a straight line to be unque other of hon fine Explain! Why do 2/3 suffice ...

For the square m (xib) xi (xi 05/1



to find min PTATAP St-11p11=1 rue can apply Lagragian religible suchday 012 min $L(p,\lambda) = p^T A^T A p - \lambda(||p||-1)$

$$\frac{\partial L(a\lambda)}{\partial P} = A^{T}AP - \lambda P = 0 \quad \textcircled{D}$$

$$\frac{\partial L(pA)}{\partial \lambda} = \lambda P = 0 \quad \textcircled{D}$$

by D we can say that we confind eigeneaux P of eigeneaux by TA because it is integer from Ilpil se is should not be because it is integer from Ilpil se is should not be because it. ican not read this.

0.5+0.5+0

Theoretical Part

Assignment 3) Fitting Circles

- a) 0.5/1
- b) 0.5/1
- c) 0/2

1/4

Practical Part

Assignment 1) Detecting Circles Using RANSAC

- a) 0.5/1 (3 points are not guaranteed to be different)
- b) 1.5/2 (have to use inliers_best)
- c) 1/1
- d) 2/2

Assignment 2) Detecting Circles Using the Hough Transform 4/4

9/10