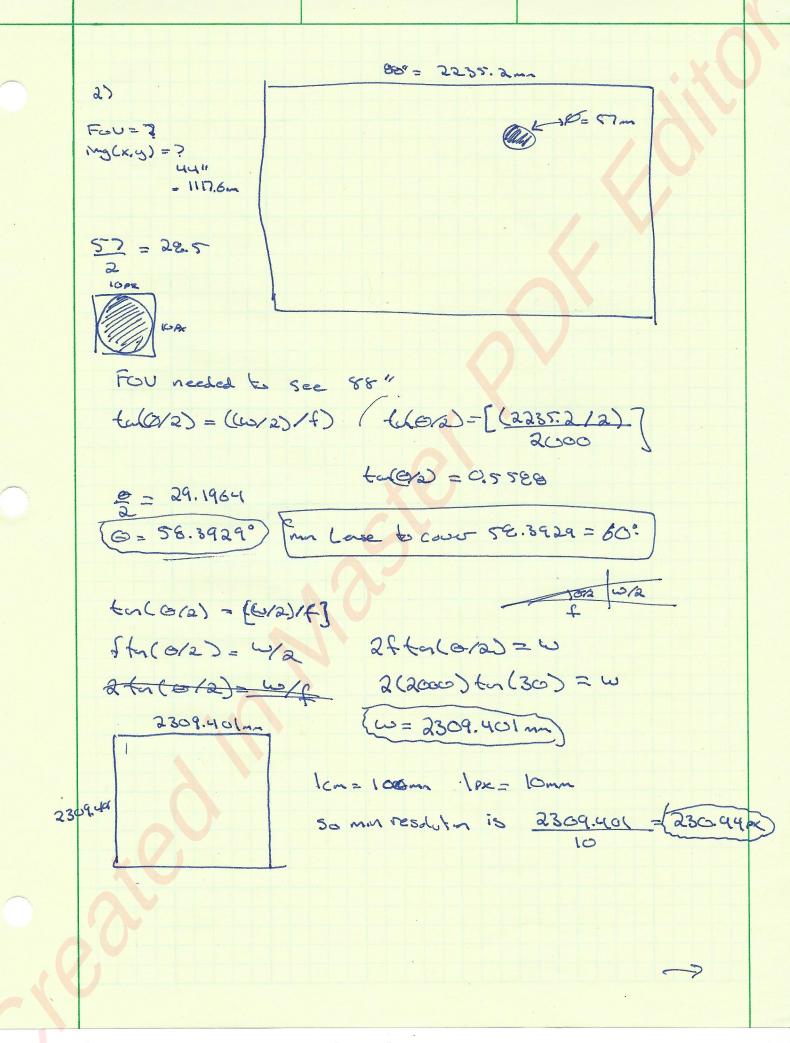
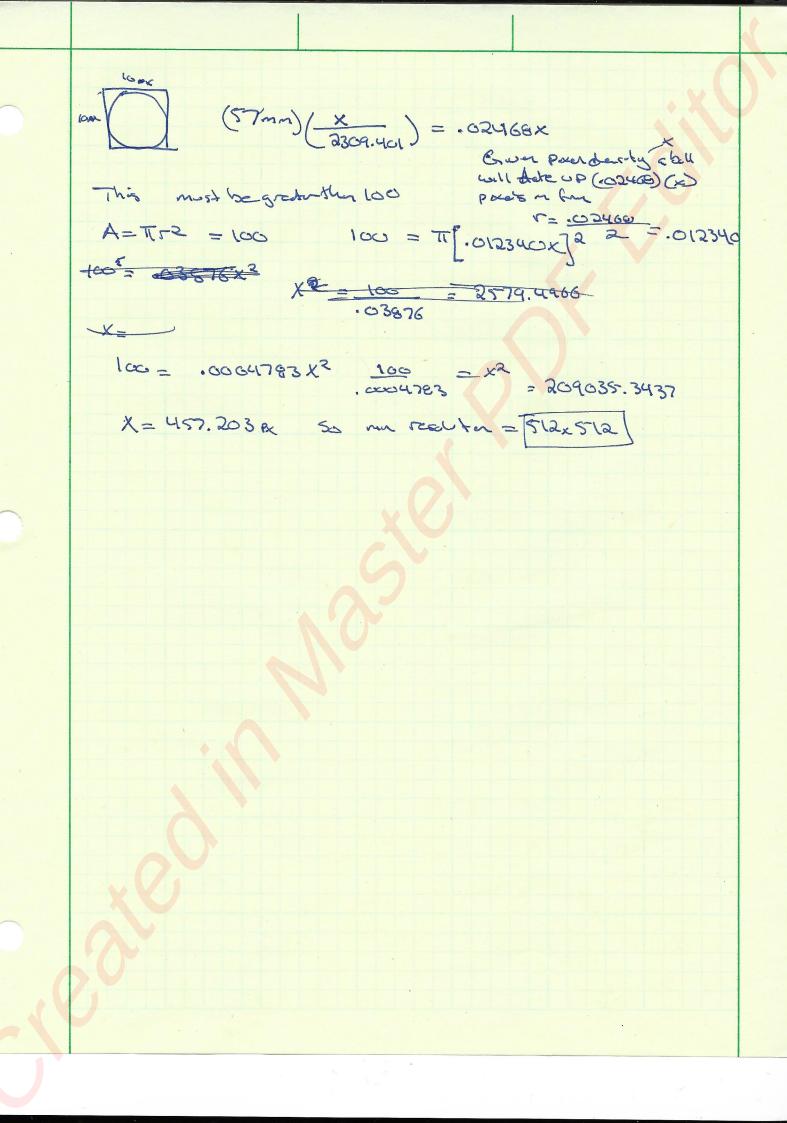
Christian Prather Computer Vision Hw_1 1)a tan (0/2) = (w/2)/f
=> 0=2tan ((w/2)/f) [1.5 mx 15 m] = size tar(0/2) = (1.5)/17 tal (C/2)= 12.76 0 = (01, (15-52) - 82'2/63° FOU- 171.03 2171.03 FOU = 5.0922×50525 @= 5.0922° 16) Diotuce From Bramblell to STM = 1371 meters = 2 ~371000m Icone widel = 1.5mm = (0.00129mm (387000 /2 mes = (U. coasson) & a for space between 0 (=.00516 W 1371000 ma 1371000 ma 1371000 X = 0.00(29 * x= f X/2 * = X X = 2(x) X= (1371000) .00516 = 416.138m f.416m Avorge heart = 1.706 metros sos yes you should be able to see a porsar fem the ters of south Tobse Martin





Utilized the methods from Lab 2, I first constructed a et motor to convert conern points to Mont from the I converted mont from to Vehicle using a with Finally I wild a will to get my points in world fine when multiplied together this gave me a "H which lets me convert convert fines to world points. I need world to convert Mowever 80 I took the inverse. This let camera Nowever 80 1 took the invoice matrices to me utilize built intrinse and extension matrices to multoly a fout (in world frame) mater by to get points in camera spece. (-1,-1,0) -(170,251) (1,-1,0) -> (267, 284) (1,1,0) -> (329,230) (-1,1,6) -> (240,205) (0,0,3) -> (241,69)

