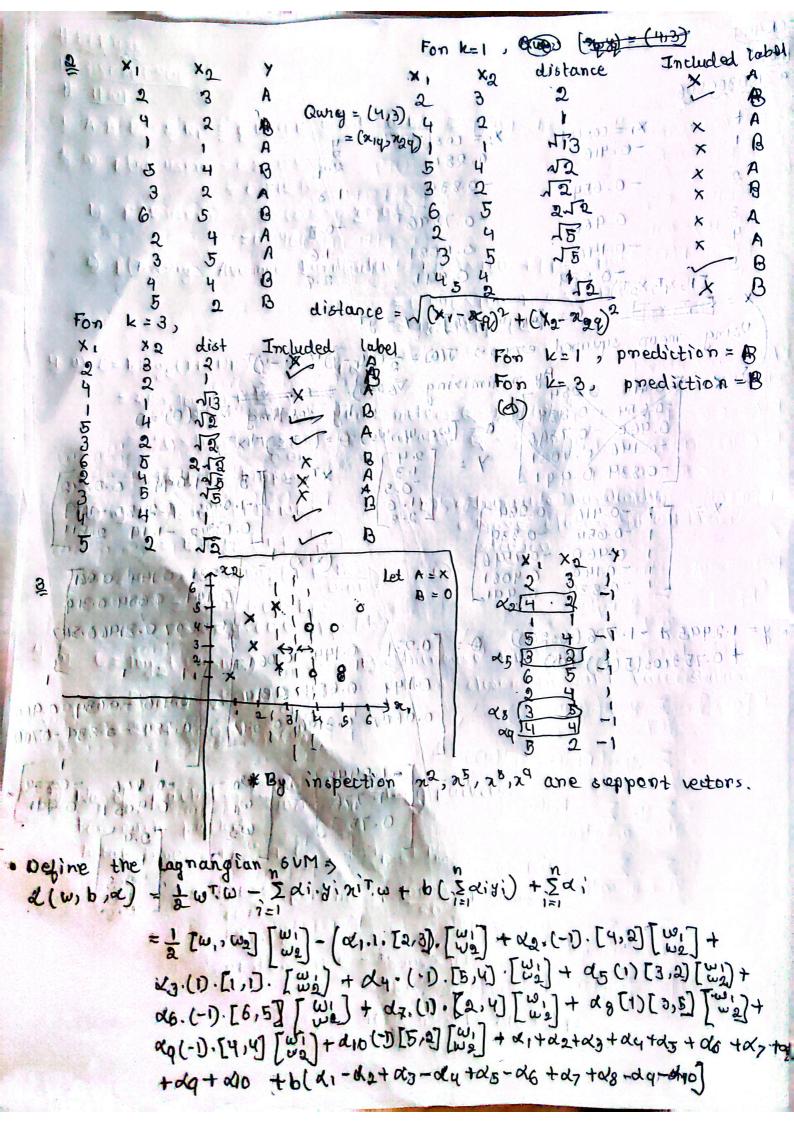
```
# HW!
# 4 3180 300 806
               ×1 = cos (21),
                              ×2= cos (5+5)
               -0.416
                               01. 28 y
                               -0.839
                -0.654
                                0.7596
                 0.960
                               0.4081
                -01461
                               1,0,991
         [1, 4T, XoT) 839
             Ty = YT ( [gw ( w ) w ) Y = yT
           mean squared error => J(0) = 1 (x0-8) (x0-8)
                              0= [wo, w,, w2) 0 = (xTx)-1 xTy
                        0.284
                                                    = 0.031 0.144 0.061
                                                       0 194 0.684 0.319
                                                   × 0.0607 0-81960-547
  y= 1.2495 8 -1.776 (0052(t)) - 0 = [0.23]
     + 0.753cos(5(E)) (d)
                                   0.144 0.684 0.819 -0.416 -0.684 0.960
                                   0.0601 0.3196 0.547 0.284 -0.834 -0.7596
                              0 = 1.2495] P 60 7 -0.496
                                                           0.4081
                                                    Cos
                                      0.753
```



by setting the Lagrangian derivative to: 103008 1318 4 all =0 -> cux = Idiyin So b(up men) - condition (1) 2 \$ OF 3.0x80 = (nam an) q (0) 3 • Το solve the dual problem = (b) 213,0 = (c) 213,0 = (d) 213,0 = · By calculting the derivate of & with the spect to di i'e si 10 2 and set 0. we get that only & of, of ) < of ) < of ) > o which proves the inputs 2, 2, 2, 2, 2, and the support vectors with 2 from each class Then solving ad ond =0 and ad sol (901811) good = ) (9 ! • Decision Rule > 7132 +0.122 + 5.6 > 1 = LAI (6) 1110 0 7337117x1 + 0422+5.65-1 = 18/(16) ( + 1) apara = one or export too more (9) Has 1 -1 - 200 (10 sport of the control of the cont 10.01.(2) 10.10(d) 10.000 10.0 To each rather 100x1000 = 1000 packets. top each packet Total time - Tas A Pas + Toust Pers 54001 + 34001 + 54001 Frms & total data transfer time = 58 ms x 1000 Throughput - 100Mp = 18 798 Mbps