(a): 1 = 38

Cobi To determine this draw the square planan field splitting lagram:

dx42

W dz2

1 N dxz dyz

Dia mognetic,

Problem 2

The ligands arestrong, thus WR have a weeks (a) I to conside in

dxy dxz dyz

Low spin, (t2g) + 2 nn palmid

CO! In has n = 10 - 2 = 8, I sterrahedral is give rally weak(1)  $\frac{10}{3x_1} \frac{1}{3x_2} \frac{1}{3x_2}$ 

(e)4 (ta)4 highsoln Zunpaired