Exam 2 Problems: Problem (a): (i): Lij the second ion ization is highest because It is attempting to forize Lit which is isoelectronic with He, the element with higher IE. the film | most positive nulleus. (O: (i)i Nat, Na, Rb (li): Ary Py Cl

Problem2 (a): 1, }  $\eta m$ (b): E/ Dissociation energy 4

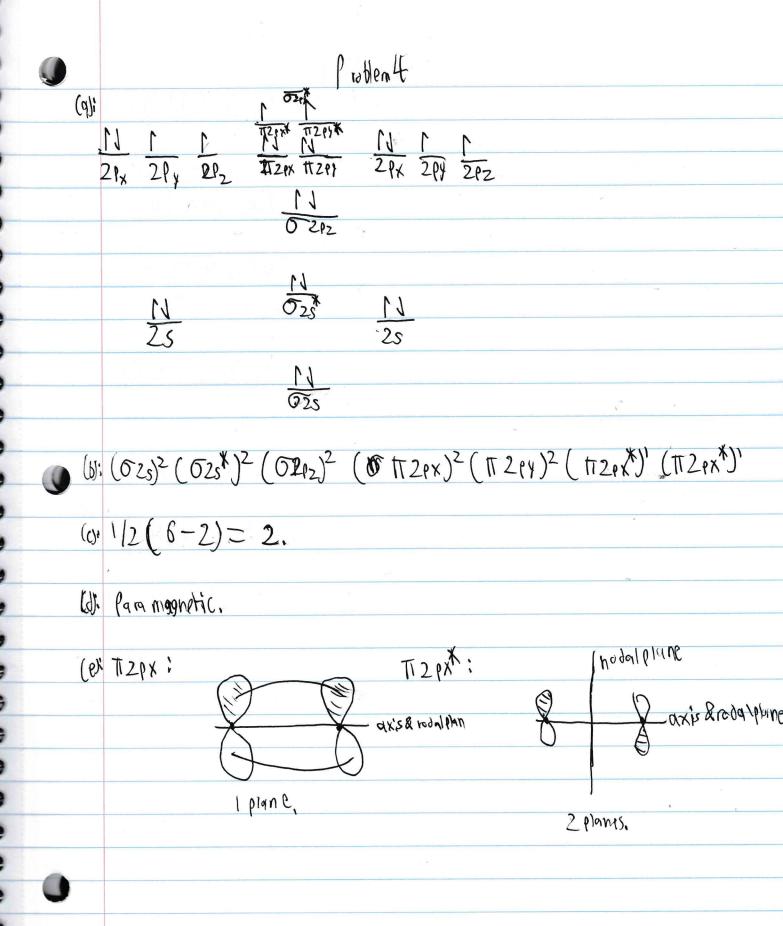
(ii): Tetrahedal

(ii): 1095

## (b) (i):

(ii): See san

(ii): AX 4E



Problem 5 (9); (1): 6 ((2s12), N2s13) (i) o((2512, (2512)) T((2PX, (2PX) (iii): o ((2s12) (2s12) T ((2px, 02px) (iii) o ((25p3, F2p2) (b) (c) 4 Cii) Bert. (111) (10) 5