

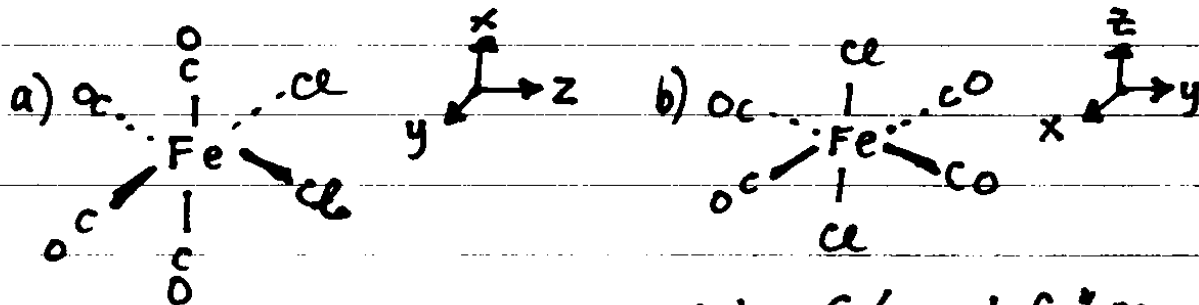
Helpful Info for Ch. 4 HW (Part B) - #27 and #28,29(a,b)

27

SF_6 - a couple of notes to help you find operations:

- 1) In the character table for this molecule, you will find two types of C_2 operations. $C_2 = C_4^2$ represents C_2 axes colinear with C_4 axes. The C_2 class (listed only as C_2) represents C_2 axes that are NOT colinear with C_4 axes.
- 2) Look for S_6 axes colinear with C_3 axes and S_4 axes colinear with C_4 axes.

28&29



Note: C_2' and C_2'' represent \perp C_2 axes. C_2' axes lie along bonds; C_2'' axes lie between bonds. Similarly, σ_v planes contain more atoms and bonds; σ_d planes lie between atoms (or bonds).

See also note above regarding S_n operations.