

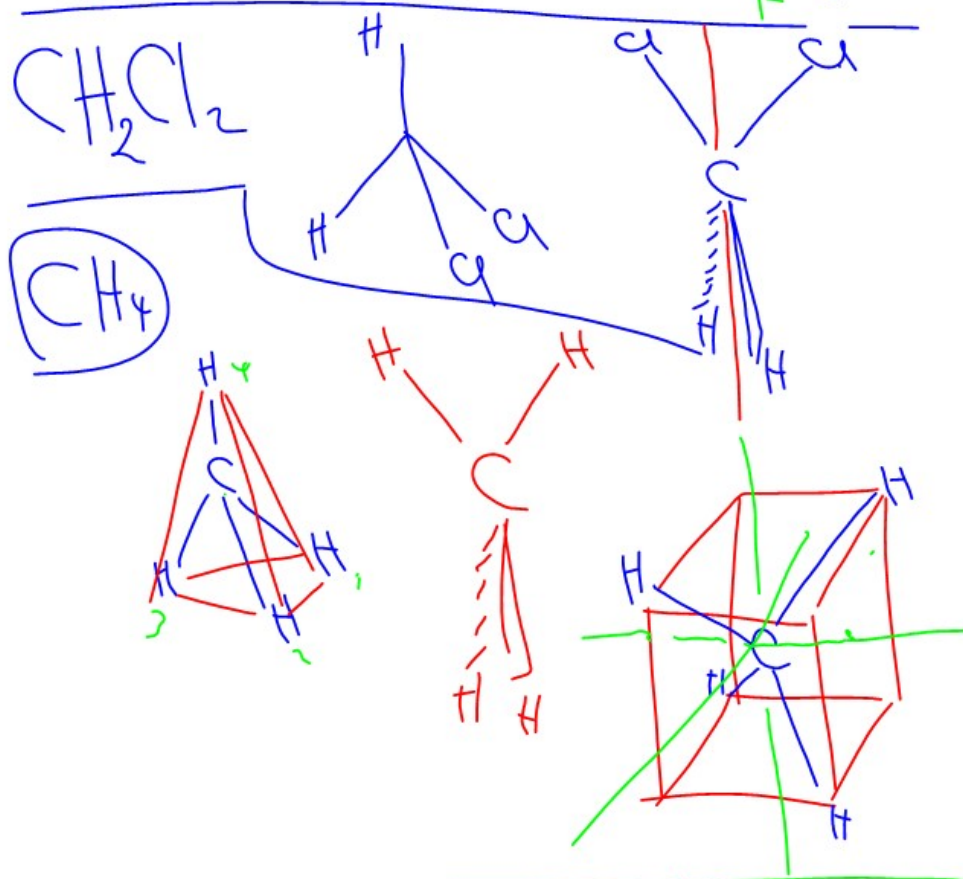
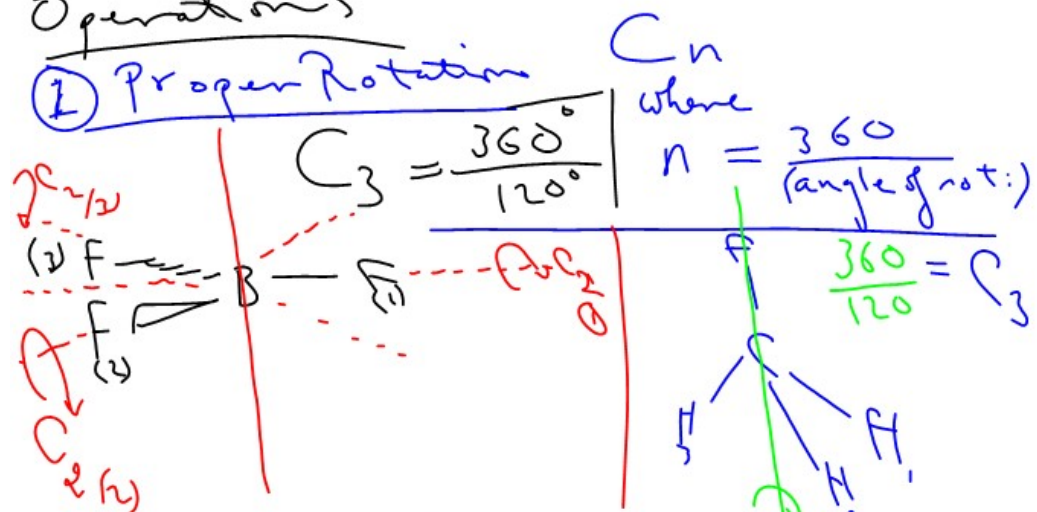
Chapt. 4
 Symmetry operations
 Symm point group
Symm: $\Rightarrow$ (presence of) equiv (parts)



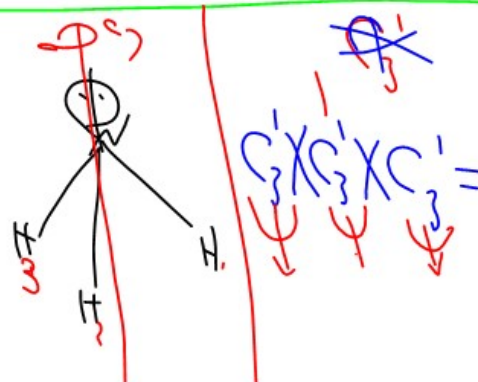
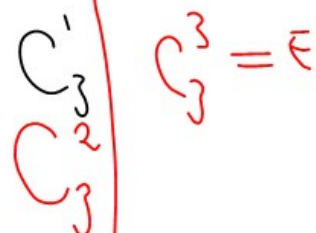
Symm. Operations
 Certain geometrical ways of
 interchanging eq. parts
Symm. Elements
 axis, plane, point through which
 operations are performed

Operations

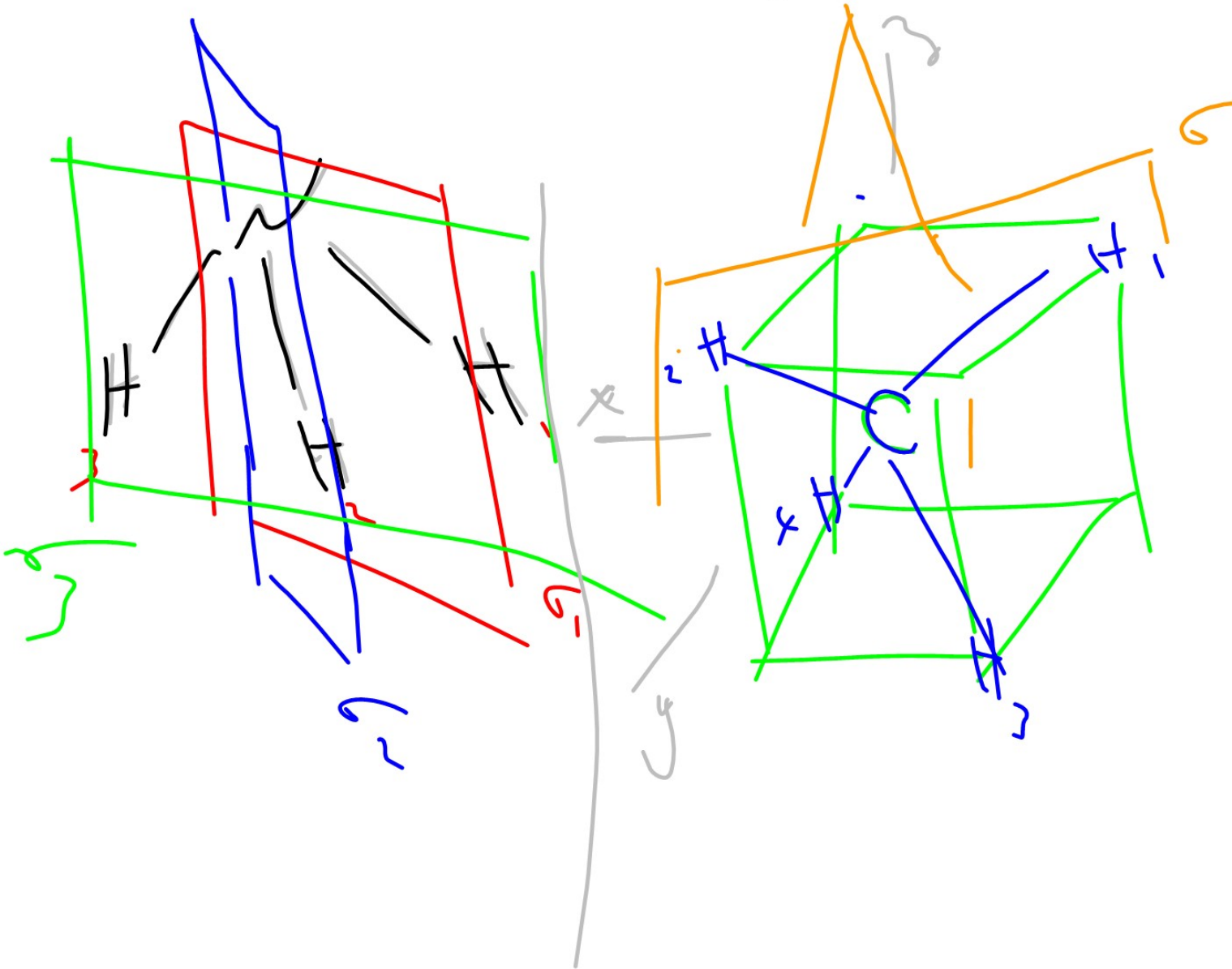
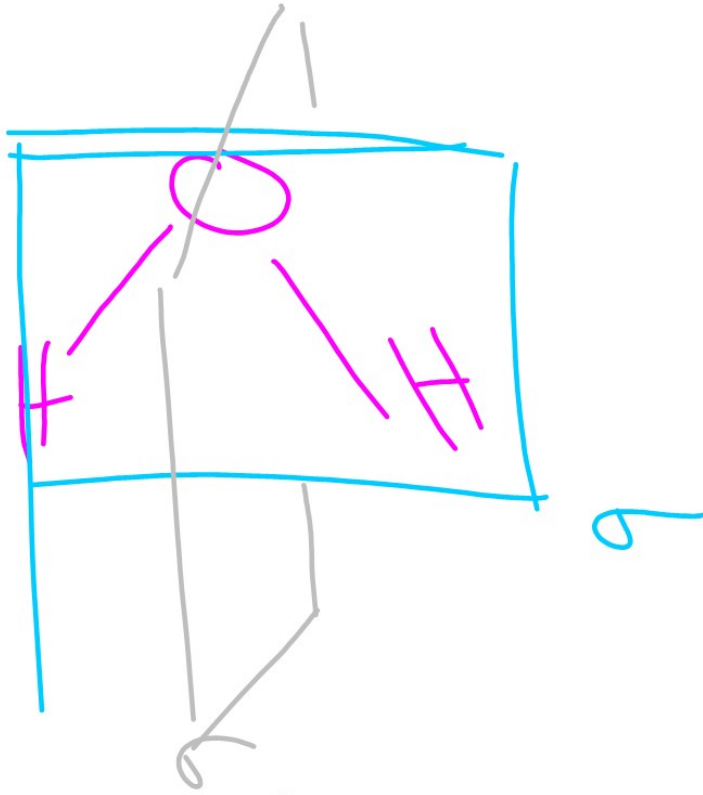
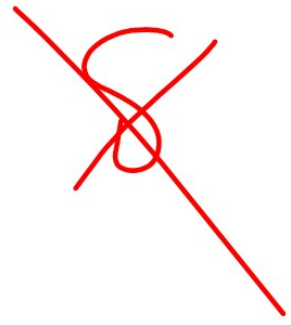
① Proper Rotation



$$C_2' C_2 = C_2 = E$$



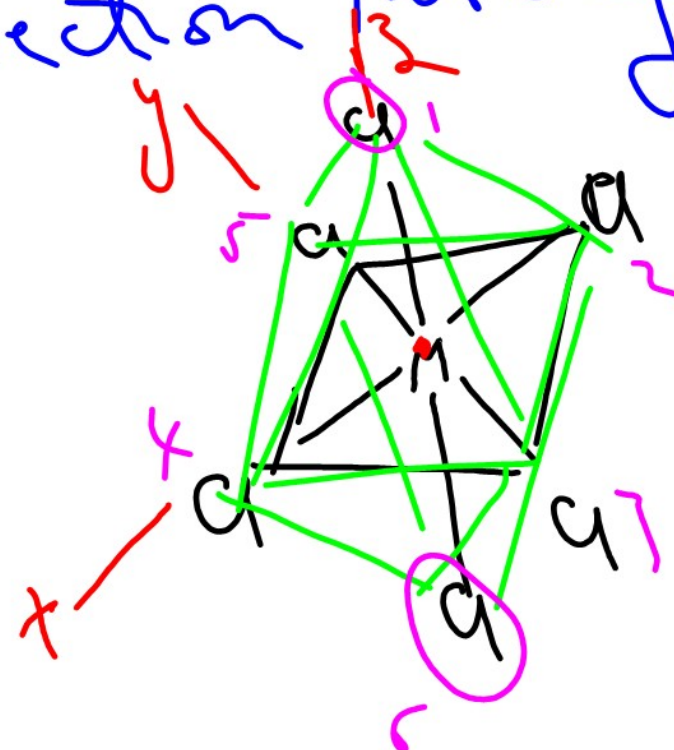
② Reflection Operation σ



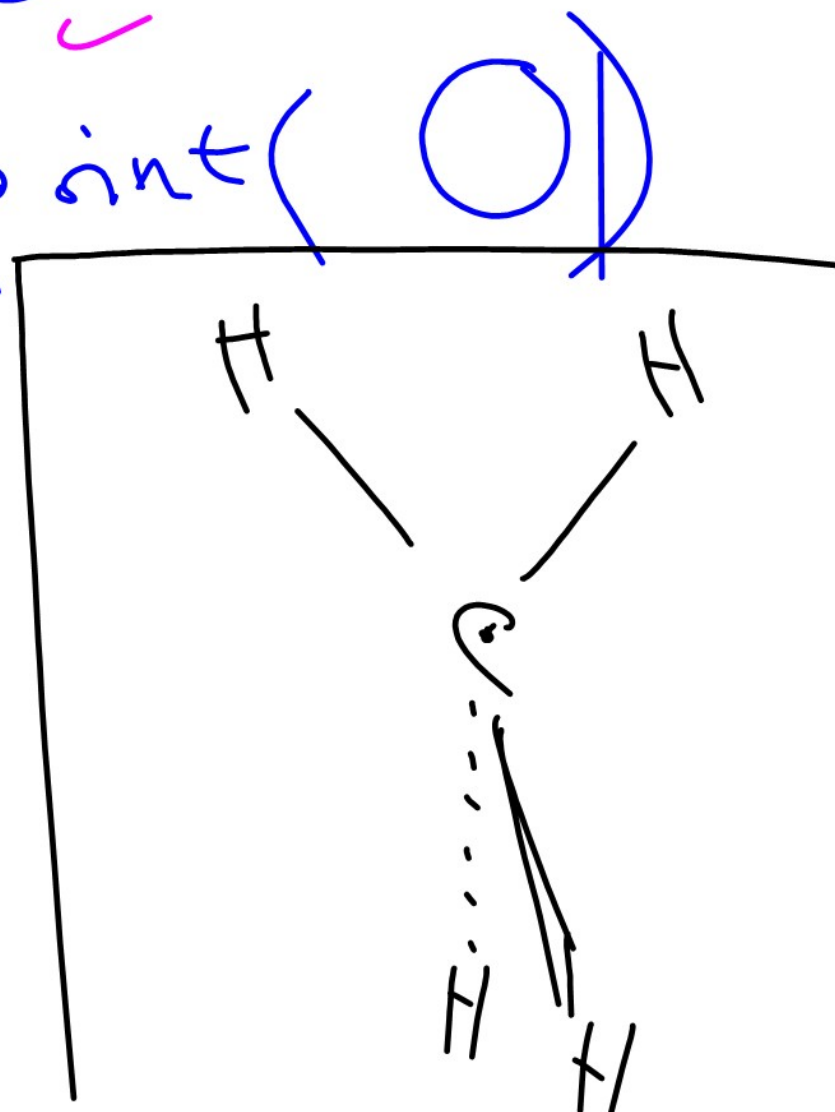
↙

Inversion i

Reflection through a point



i



Identity

S_n