## Coordinate bond

Friday, 9 February 2024 10:17 pm

Coordinate bond - the bond that form where both the shared electrons originate from one atom Average length of covalent bond 1 covalent bond: 154pm  $M \times 10^{-2}$  = Pm 2 covalent bond 1: 134Pm

2 coverent bond: 134pm 3 covalent bond: 128pm

Energy require to break bord

1; 346 47

More bond, more strength

2: 6/457

3: R39 KJ

More electron shared
... greater electrostatic attraction
-> less distance

L≡C do not exist because distance content bond < 120pm the nuclei repel.

B and Be is the exception of octet rule (incomplete octet)

Step of drawing the coordinate bond with lewis structure

Step 1 = calculate the number of electron at valence shall

Step 2 = put the single bond between the atom

Step 3 = arranged the number of electron around each atom

Step 4 = in order to achieve the full valence shell, sometime the lefted electron from full valence shelled atom have to be shared.(don't forget to add brackets)

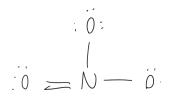
eg; NO3

step I 5+18+1=24 E

2+66 > 0 - V) - 0

Step 3: . 0:

SteP U'.



indicate consdinatement

- -1 1./..-

1 C bond because I bond represent 2 electron which means 2 electron is contributed towards organismose by atom)