

GEOMETRIA MOLECULAR

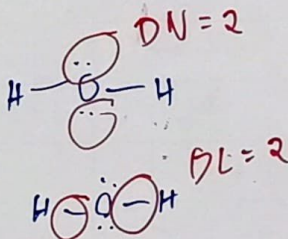
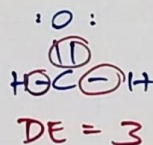
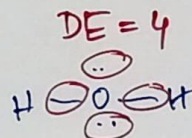
LEWIS: CONECTIVIDADE (QUEM ESTÁ LIGADO COM QUEM)

POLARIDADE DAS LIGAÇÕES

SIMPLES, MÚLTIPLAS, ELÉTRONS LIVRES

VSEPR: FORMA, POLARIDADE DA MOLECULA

MODELO DE REPULSÃO DOS ELÉTRONS DA CAMADA DE VALENCIA



$$DE = DL + DN$$

DOMÍNIOS ELÉTRONICOS (DE)

DOMÍNIO LICANTE (DL)
ELÉTRONS LIGADOS

DOMÍNIO NAS LICANTE (DN)
ELÉTRONS LIVRES

CONCENTRAÇÃO DE ELÉTRONS EM UMA DIREÇÃO

REPULSÃO MÁXIMA

DE

2

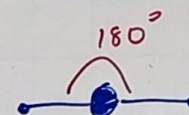
3

4

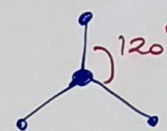
5

6

FORMA

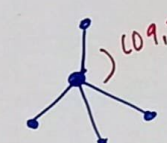


LINEAR

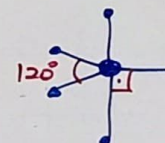


TRIÂNGULO

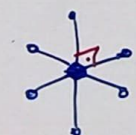
TRIGONAL PLANA



TETRAÉDRICA



BIPIRÂMIDE TRIGONAL



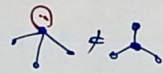
OCTAÉDRICA

GEOMETRIA MOLECULAR

| DE (DOMÍNIO ELETRÔNICO) | FORMA | |
|----------------------------|-------|---------------------|
| 2 | | LINEAR |
| 3 | | TRIGONAL PLANA |
| 4 | | TETRAÉDRICA |
| 5 | | BIPIRÂMIDE TRIGONAL |
| 6 | | OCTAÉDRICA |

DOMÍNIO LIGANTE: ANGULARES

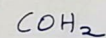
PIRÂMIDE TRIGONAL



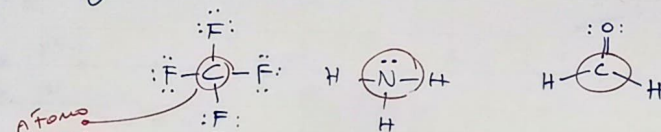
QUADRADO PLANAR



DETERMINE A GEOMETRIA MOLECULAR E PROPRIEDADES:

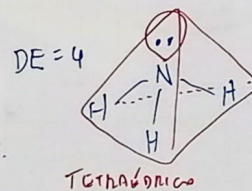
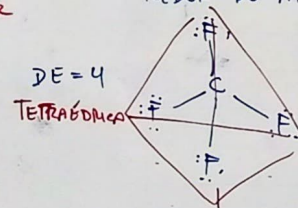


① DETERMINE ESTRUTURA DE LEWIS



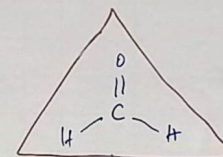
ÁTOMO CENTRAL
↓
GEOMETRIA AO REDOR

② QUANTOS DOMÍNIOS ELETRÔNICOS AO REDOR DO ÁTOMO CENTRAL ⇒ FORMA



DE = 3

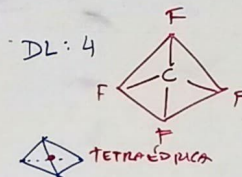
TRIGONAL PLANA



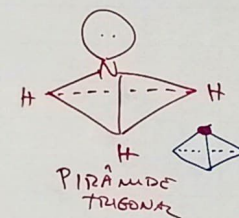
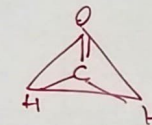
- ① LEWIS
- ② DE
- ③ DL

③ OBSERVAR DOMÍNIO LIGANTE
→ GEOMETRIA MOLECULAR

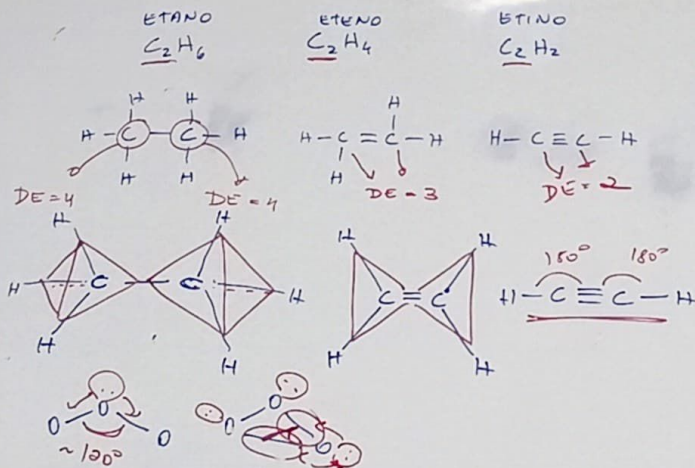
DL: 4



DL: 3



6) MAIS DE 1 ÁTOMO CENTRAL



DOMÍNIO LIGANTE: ANGULAR

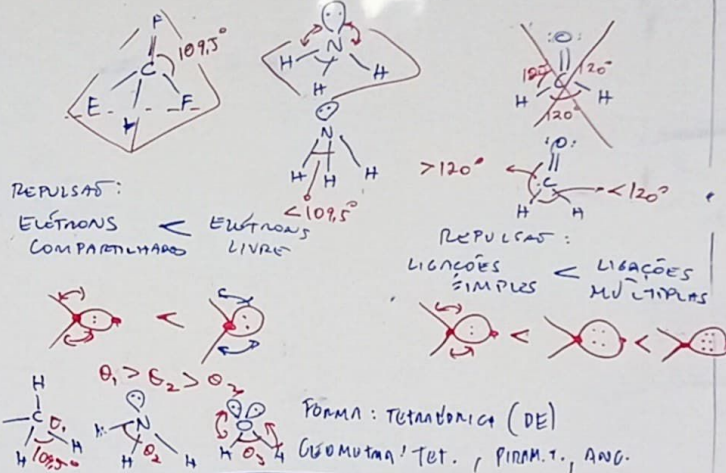
PIRÂMIDE TRIGONAL

QUADRADO PLANAR

DORS@POLI-DT

4) ÂNGULOS: DEFORMAÇÃO

PAR DE ELE. LIVRES
MULTIPLAS. LIGAÇÕES

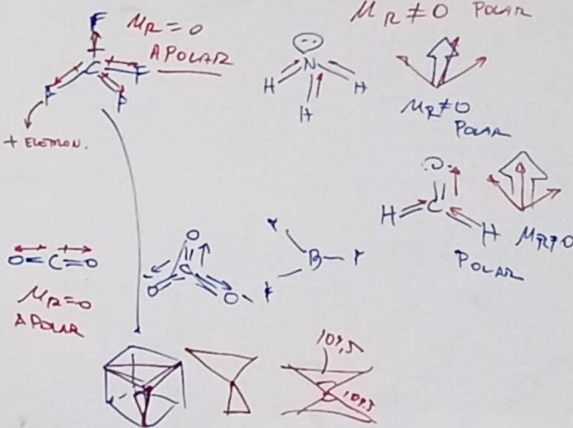
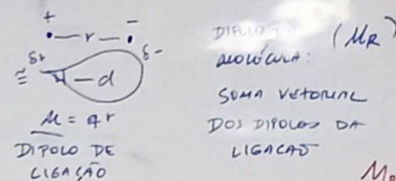


GABOIRIA

FORMA DE T

PIRÂMIDE DE BACO QUADRADA

5) DIPOLOS MOLECULARES/RESULTANTES



- 1) LEWIS
- 2) DE
- 3) DL
- 4) ÂNGULOS
- 5) DIPOLO RES.
- 6) MAIS DE 1 CON. TAO