**SP3 hybridization (Example: Metahne: CH4)**



**SP2 hybridization (Example:Ethaene: CH2=CH2)**



**SP hybridization (Example:Ethyne: CH≡CH)**



**Example**



**Answer the following Questions:**

1. **Assign the type of hybridization for all atoms.**
2. **Assign type of hybridized orbitals that form the indicated sigma- bonds:**

**C1-C2**

**C2-C3**

**C4-C5**

**C5-C6**

**C6-C7**

**C9-C10**

**C10-C11**

**C11-C13**