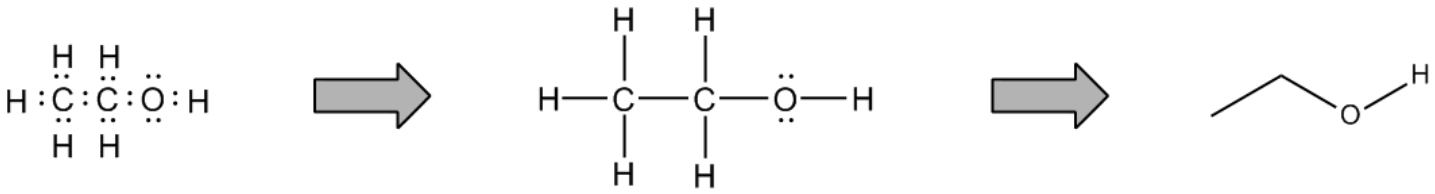
**CONCEPT:** SKELETAL STRUCTURE

The bondline method is a way to simplify the drawings of organic structures, based on the ***octet rule***.

- _____ are implied: Every corner is assumed to represent a carbon.
- _____ are implied: Carbon is assumed to possess enough hydrogens to fill its octets.
- _____ are implied: *Heteroatoms* are assumed to possess enough electrons to fill their octets.
- _____ _____ are used to indicate when an atom does not satisfy its bonding preference.
    - □ **Watch Out:** ALL hydrogens on _____ MUST be drawn explicitly.

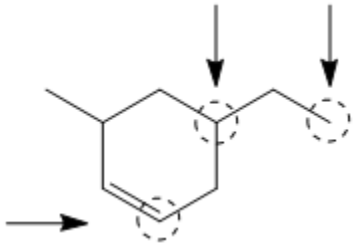
**EXAMPLE:** Conversion of ethanol to bondline



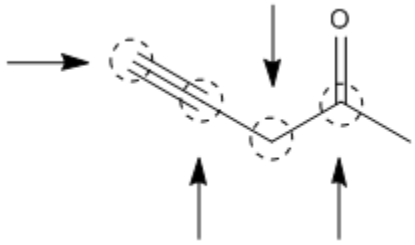
Electron Dot Structure | Lewis Structure | Bondline Structure

**PRACTICE:** How many implied hydrogens does each labeled carbon have?

a.

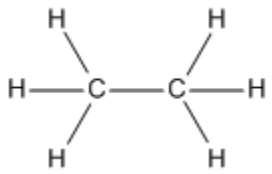


b.

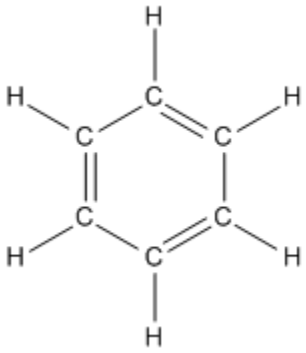


**PRACTICE:** Convert each structure into a line-angle structure. Be sure to assign **ALL** necessary formal and net charges.

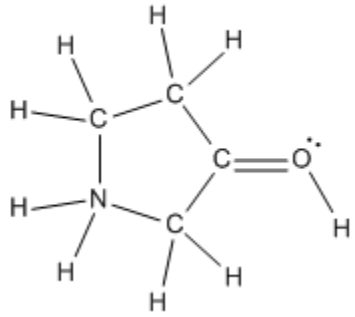
a.



b.



c.



d.