

**( 9 ) Today**

Sections 1.12  
Drawing Chemical Structures - Skeletal  
Structures

Sections 2.1 - 2.4  
Polar Covalent Bonds, Formal Charges,  
Resonance/Electron Delocalization

**(11) Second Class from Today**

Sections 2.4 – 2.6  
Resonance/Electron Delocalization

Bring Modeling Kits

**Next Class (10)**

Sections 2.1 - 2.4  
Polar Covalent Bonds, Formal Charges,  
Resonance/Electron Delocalization

Bring Modeling Kits

**Third Class from Today (12)**

Sections 2.4 – 2.6  
Resonance/Electron Delocalization

Sections 2.7 – 2.11  
Acids and Bases

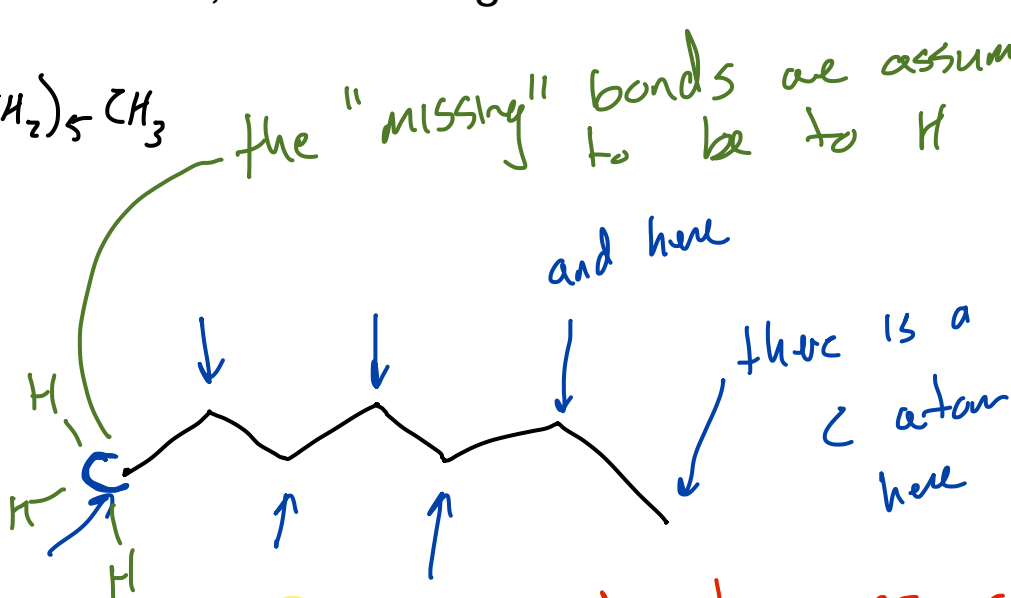
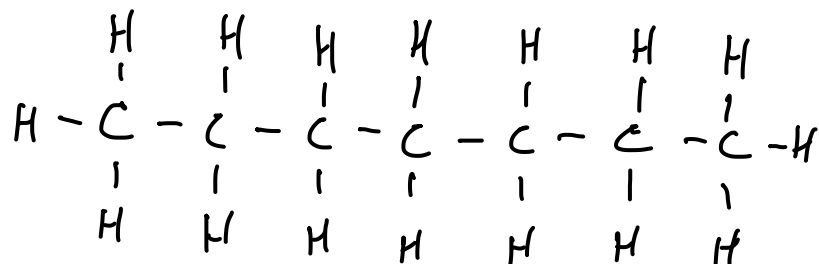
When a bond ends and the atom isn't labeled it is assumed to be C.

When there aren't enough bonds drawn to a C atom, the "missing" bonds are C atom to H atom bonds.

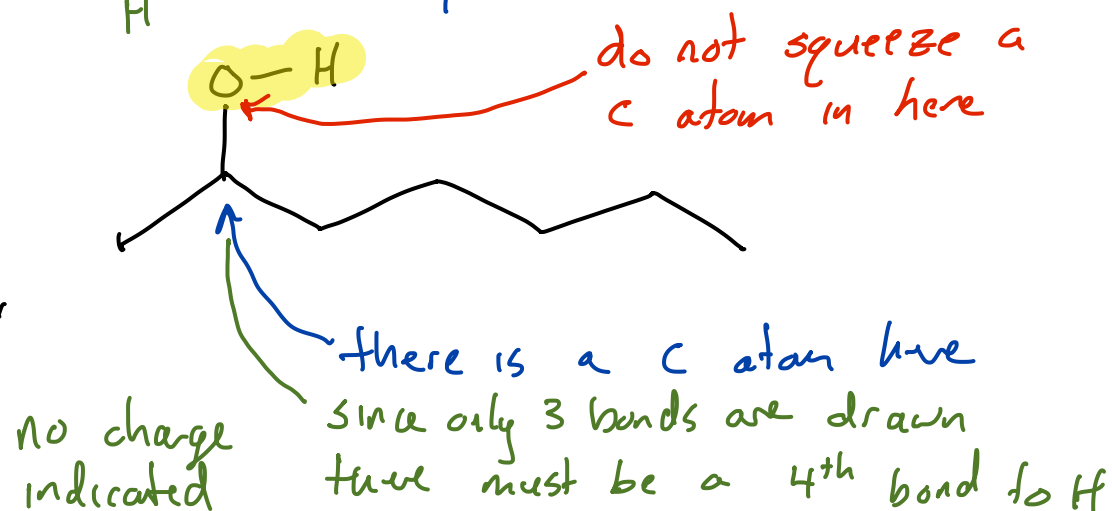
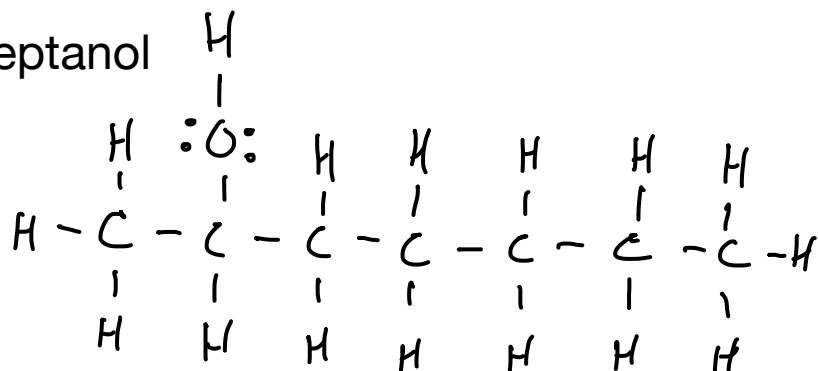
All other atoms are labeled.

or  $\text{CH}_3(\text{CH}_2)_5\text{CH}_3$  the "missing" bonds are assumed to be to H

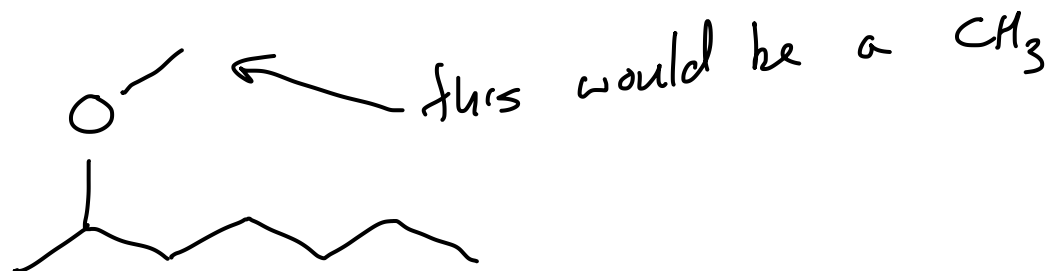
Heptane  $\text{CH}_3\text{CH}_2\text{CH}_2\text{CH}_2\text{CH}_2\text{CH}_2\text{CH}_3$

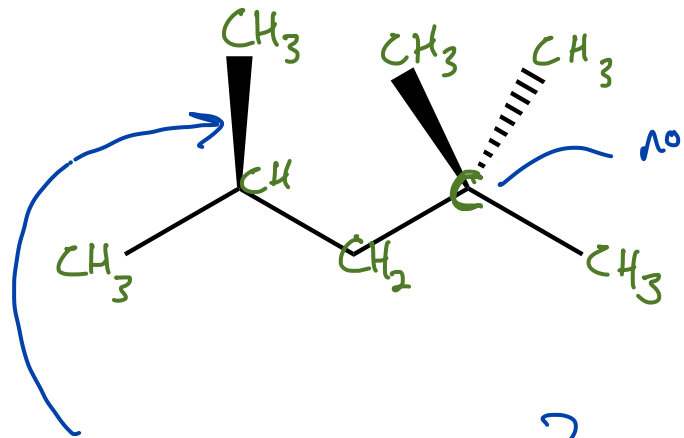


2-heptanol

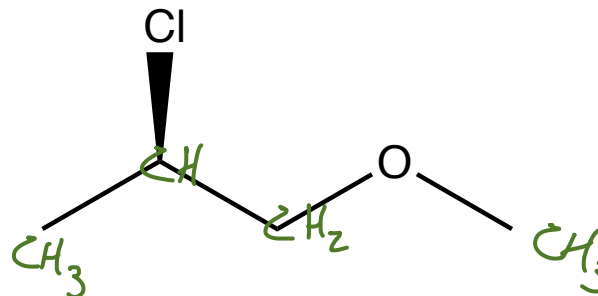


Different structures serve different purposes, but they represent the same things



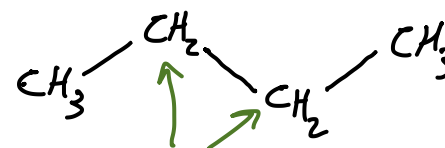
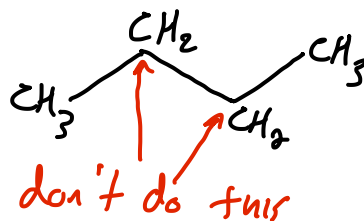


no H's for me,  
I already have  
4 bonds  
draw to me.

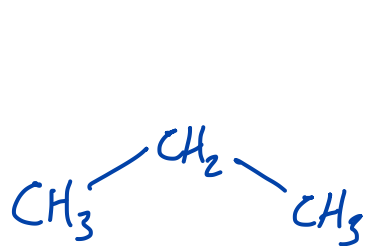
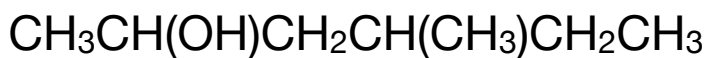


what does this mean?

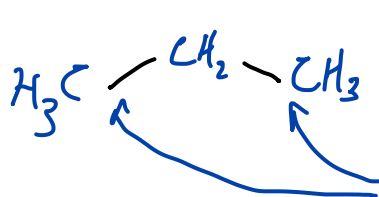
It's a single bond that  
points out of the screen  
toward the viewer



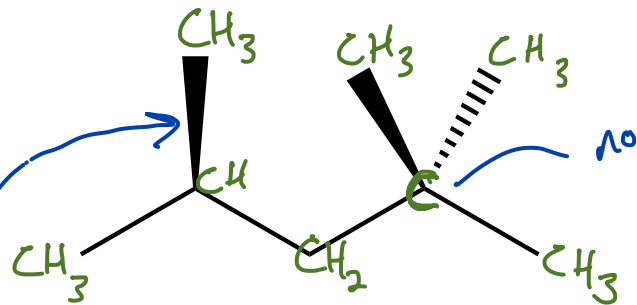
put the C's in a space  
between the bonds



no atom specified ... must be C  
no charges indicated, only 2 bonds draw so we  
need 2 more to get to 4 bonds ... CH<sub>2</sub>



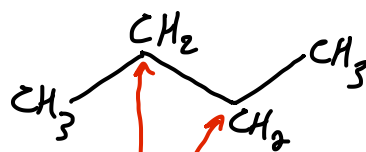
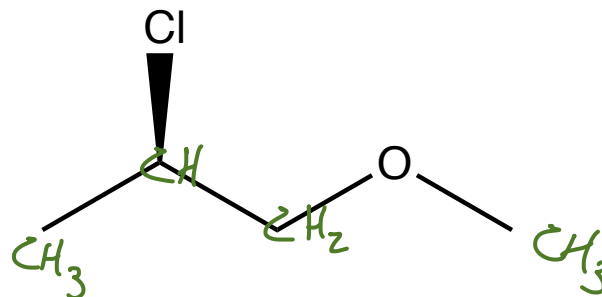
bond comes to end ... no atom specified  
must be C.  
only 1 bond to C, no charges indicated ...  
must have 3 more bonds ∴ CH<sub>3</sub>



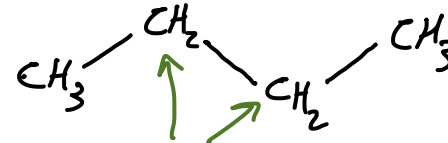
what does this mean?

It's a single bond that points out of the screen toward the viewer

no H's for me, I already have 4 bonds draw to me.

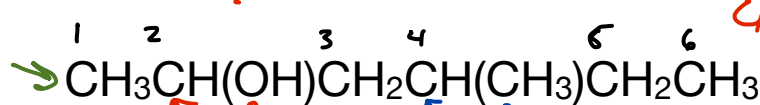


don't do this could confuse is it a CH2 or is there a bond to another CH2



put the C's in a space between the bonds

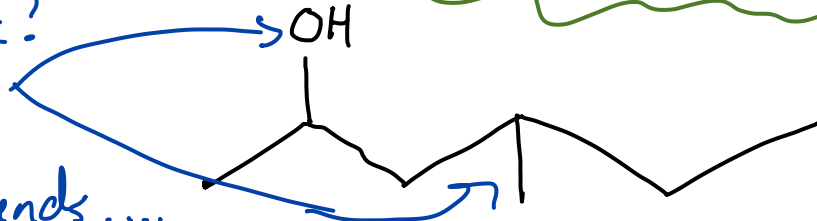
Convert this to a skeletal structure



is this ok?

It depends....

were you asked to show the stereochemistry? NO... then it's fine



If asked to show stereochem

