

Session 7: Nomenclature

- 1) What are the 3 steps in naming a simple organic structure?

- 2) What order do you put the substituents in when naming the structure?

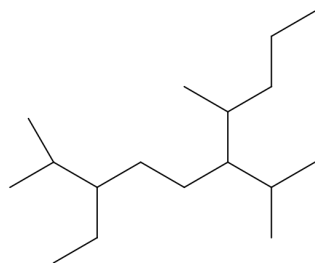
- 3) If you are given a structure with two substituents that are an equal distance from either end of the parent chain, how do you determine which is given the smaller number?

- 4) What are four special substituents that we need to be able to recognize?

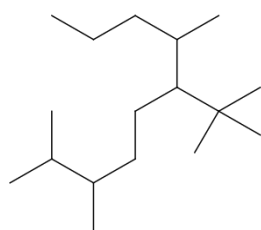
- 5) If there are two chains of equal length competing to be the parent chain, which one should you choose?

6) Name the following compounds:

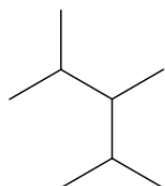
a)



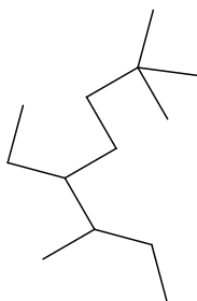
b)



c)



d)



7) Construct the organic structures given the names.

a) 2,3,5-trimethyl-4-propylheptane

b) 5-sec-butyl-2,7-dimethylnonane

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d) 7-ethyl-2,2-dimethyl-4-propylnonane