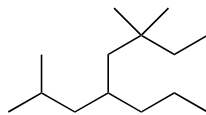
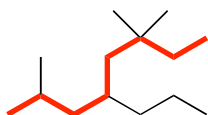


# IUPAC NAMING OF ALKANES

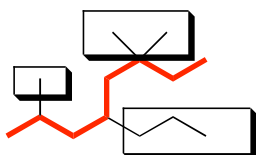


1) Find and name the longest chain (root, stem). (A tie is broken by choosing the chain with more substituents.)



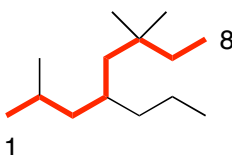
octane

2) Name all the substituents (groups) attached to the chain.



3 methyls, 1 propyl

3) Number the main chain such that the **first** substituent gets the lowest possible number. (A tie is broken alphabetically by substituent.)



4) Place the substituents in alphabetical order in front of the root (do not count prefixes, di, tri, sec, tert...).

**2,6,6-trimethyl-4-propyloctane**