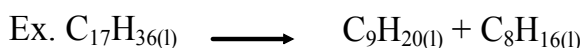


Reactions

cracking - reaction in which hydrocarbons are broken into smaller fragments

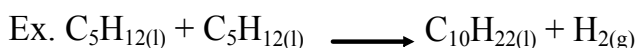
- this reaction occurs in the absence of air, and **with a catalyst or heat**, to speed up the reaction.



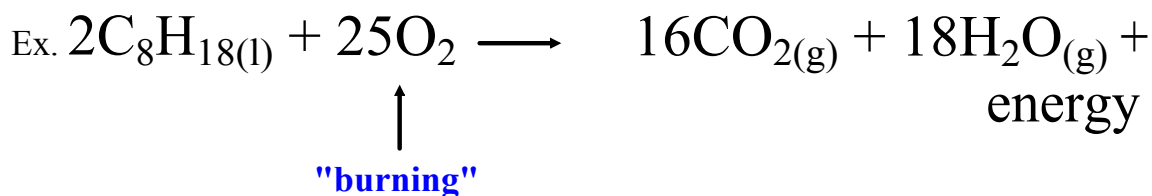
***atoms must be conserved!**

reforming - reaction in which large molecules are formed from smaller ones

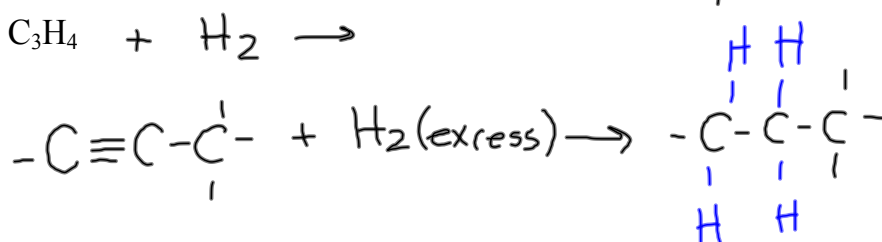
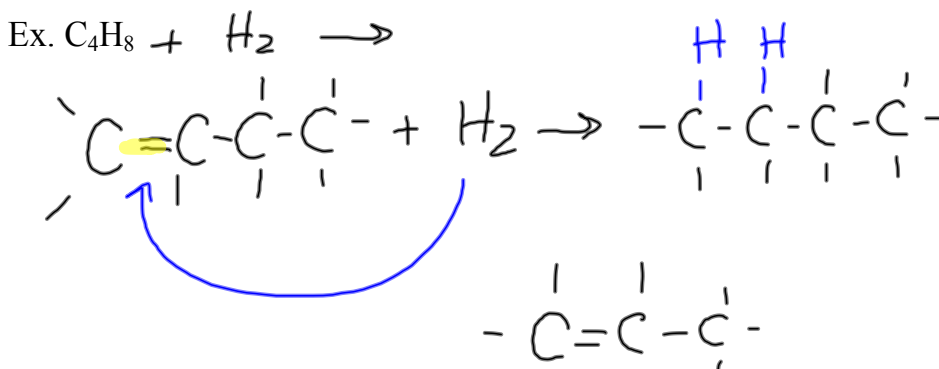
- this reaction normally occurs with the help of a catalyst or heat

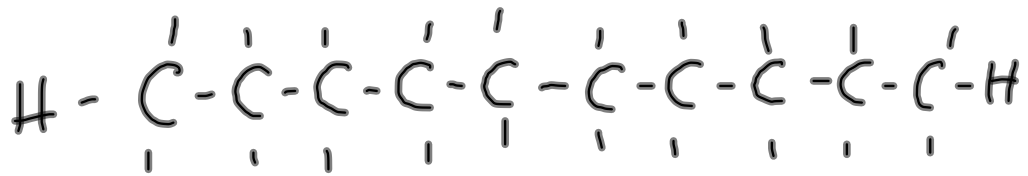


combustion - a reaction between a compound and oxygen to produce the most common oxides.



addition (hydrogenation) reaction - a reaction in which an unsaturated molecule reacts with hydrogen (diatomic).

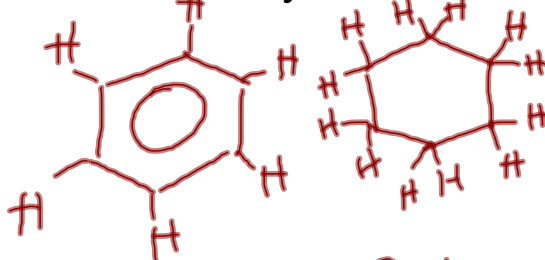




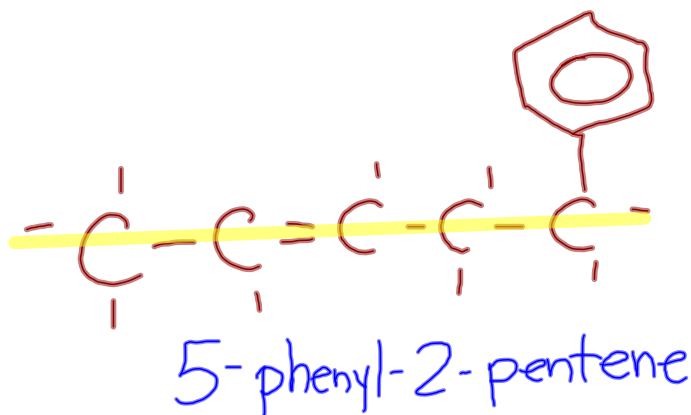
Common Mistakes...



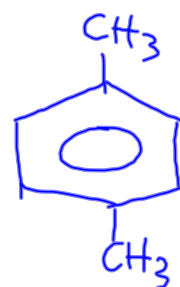
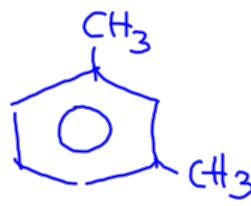
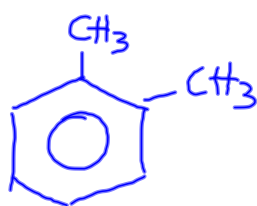
Benzene vs. Cyclohexane



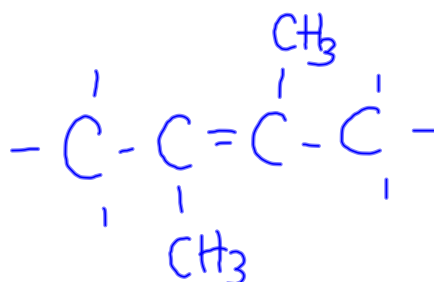
Benzene as a branch (phenyl)



ortho, meta, para-dimethylbenzene



dimethyl-2-butene



Worksheet - Naming Hydrocarbons

Worksheet

Quiz - Tomorrow