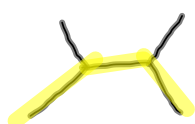


Worksheet 47 - Questions?

⑪

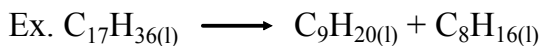


2,3-dimethylbutane

Reactions

cracking - reaction in which hydrocarbons are broken into smaller fragments

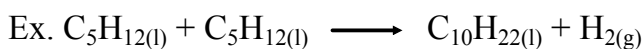
- this reaction occurs in the absence of air, and **with a catalyst or heat**, to speed up the reaction.



***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

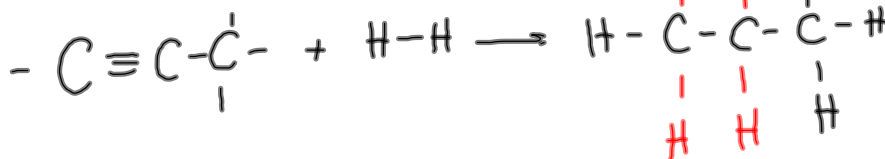
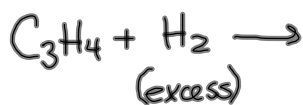
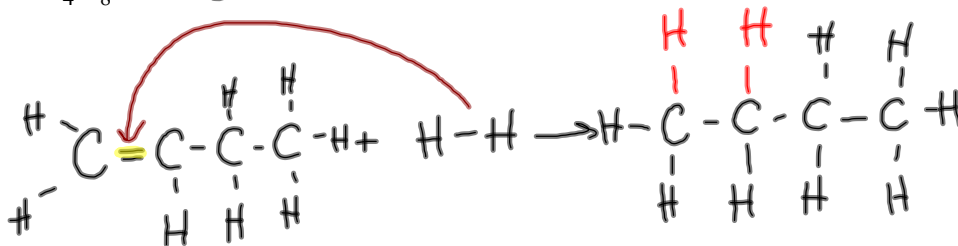


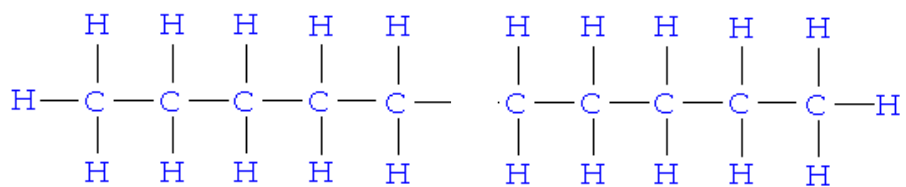
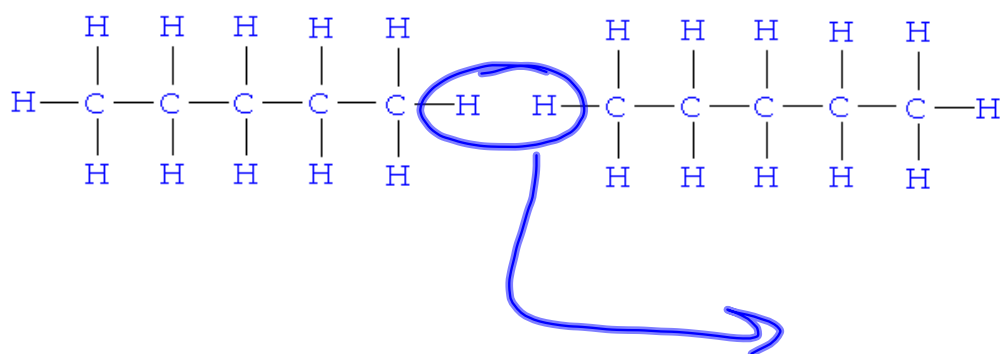
combustion - a reaction between a compound and oxygen to produce the most common oxides.



↑
"burning"

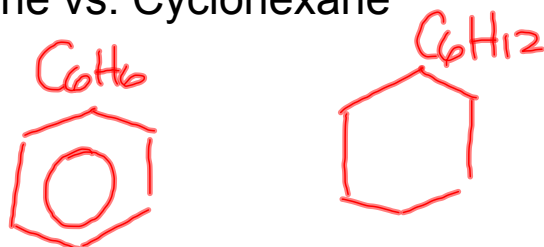
addition (hydrogenation) reaction - a reaction in which an unsaturated molecule reacts with hydrogen (diatomic).



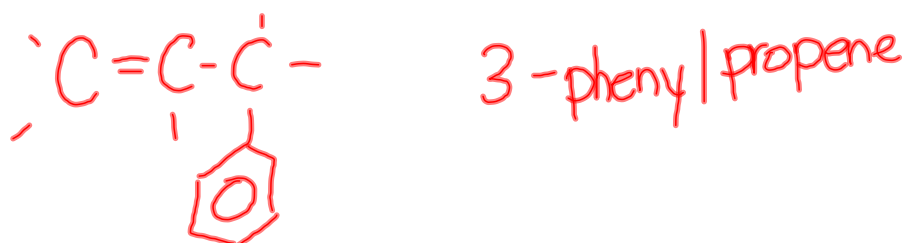


Common Mistakes...

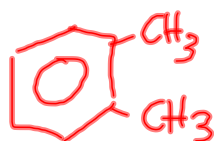
Benzene vs. Cyclohexane



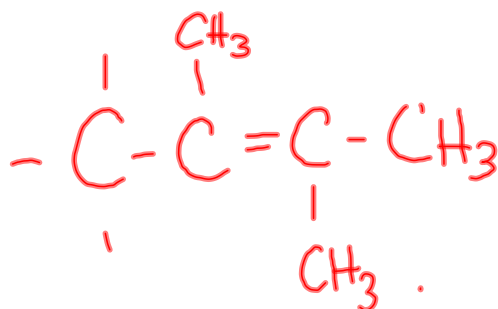
Benzene as a branch (phenyl)



^{1,2} ortho, ^{1,3} meta, ^{1,4} para-dimethylbenzene



dimethyl-2-butene



Worksheet

Quiz - Tomorrow