

## Exercise 15 - Nomenclature - in all its cruel glory.

### Question Five

Draw the following molecules and, if necessary, give correct names to them.

a.) 3-ethyl-4-methylpentane

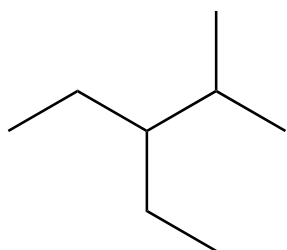
c.) 2-ethyl-2,4,6-trimethylheptane

d.) 3,4-dimethyl-1-isopropylcyclohexane (ignore cis/trans isomers)

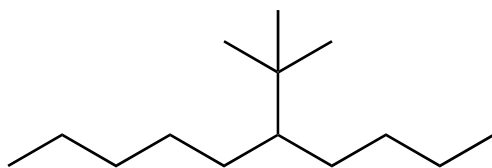
e.) 3-butyl-2,2-dimethylhexane

f.) cis-3-methyl-3-pentene

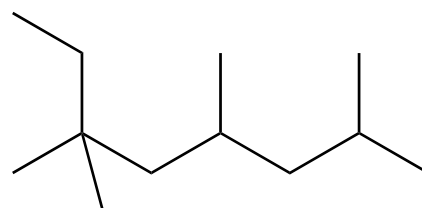
a.) 3-ethyl-4-methylpentane  
3-ethyl-2-methylpentane



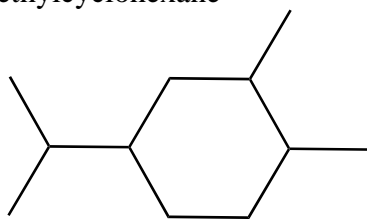
b.) 5-t-butyldecane



c.) 2-ethyl-2,4,6-trimethylheptane  
3,3,5,7-tetramethyloctane

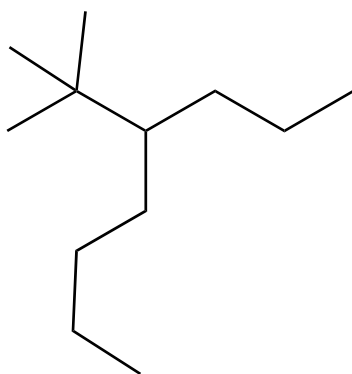


d.) 3,4-dimethyl-1-isopropylcyclohexane (ignore cis/trans isomers)  
4-isopropyl-1,2-dimethylcyclohexane

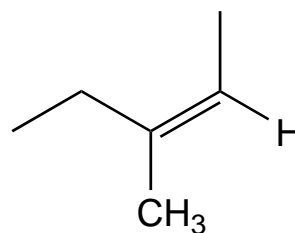


4-isopropyl-1,2-dimethylcyclohexane

e.) 3-butyl-2,2-dimethylhexane  
4-t-butyldecane

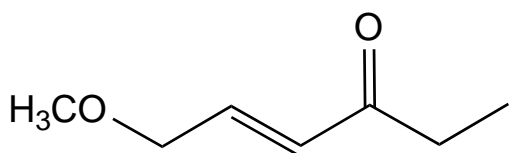


f.) cis-3-methyl-3-pentene  
cis-3-methyl-2-pentene

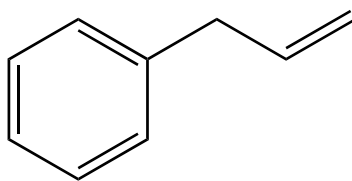


**Question Two**

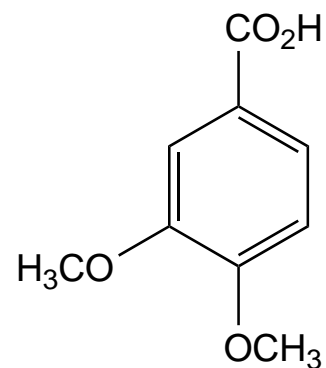
Name the following:



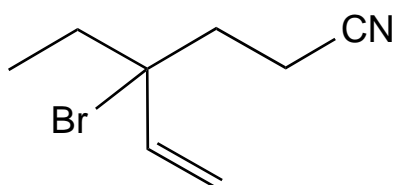
6-methoxy-4-hexen-3-one



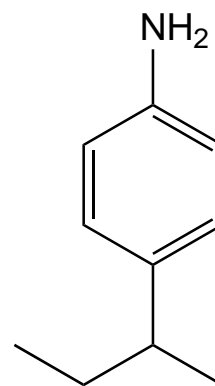
3-phenylpropene or  
allylbenzene



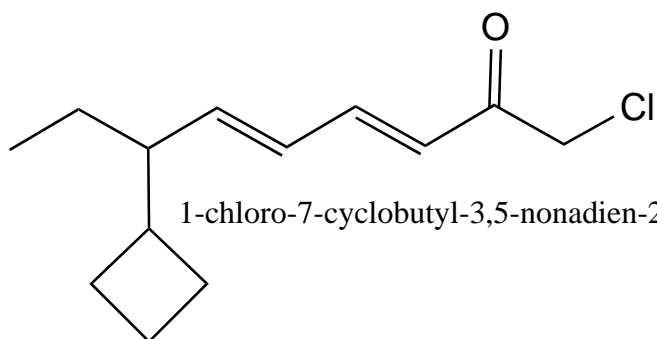
3,4-dimethoxybenzoic acid



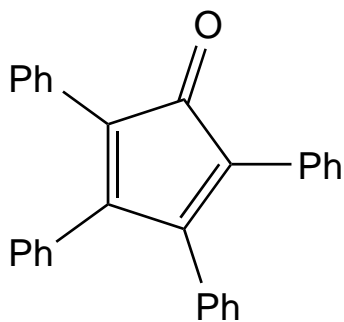
4-bromo-4-ethyl-5-hexenenitrile



4-*sec*-butylaniline



1-chloro-7-cyclobutyl-3,5-nonadien-2-one



2,3,4,5-tetraphenyl-2,4-cyclopentadienone