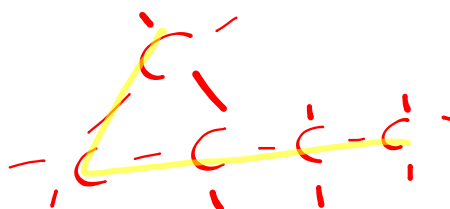
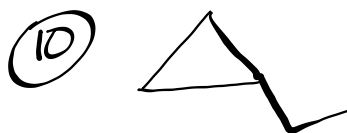
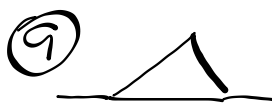
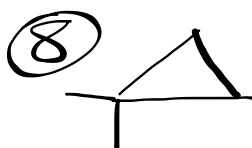
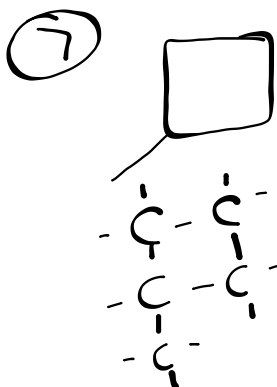
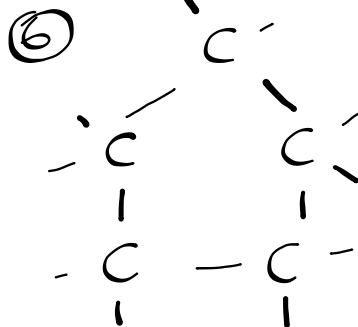
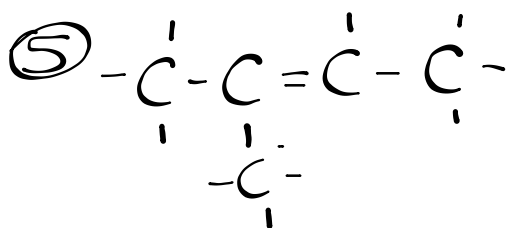
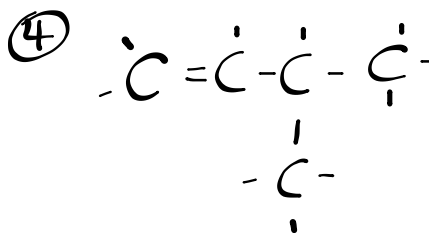
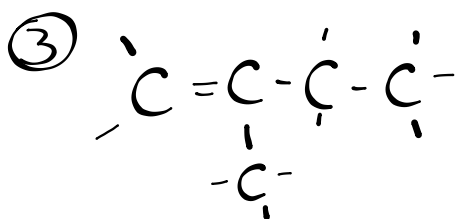
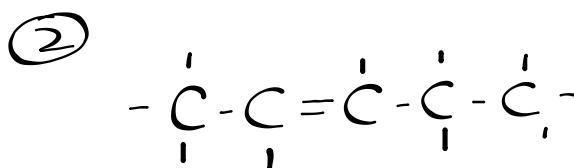
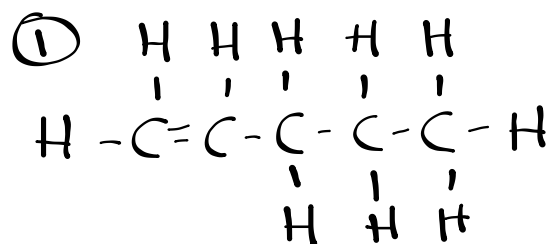


# Pass in Molecular Models Investigation

### Draw all isomers of C<sub>5</sub>H<sub>10</sub>



## Organic Families

Organic families are classed according to functional groups.  
Functional groups are areas on a molecule that are reactive.

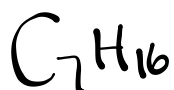
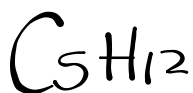
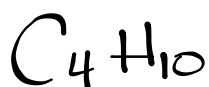
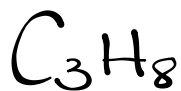
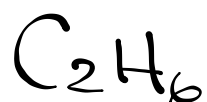
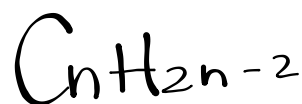
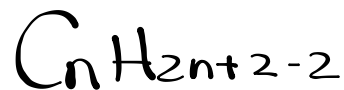
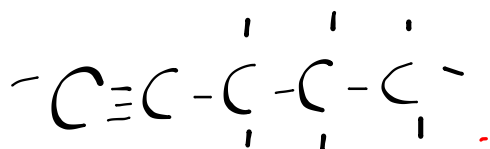
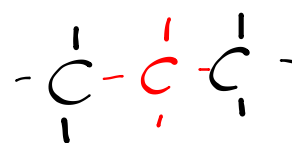
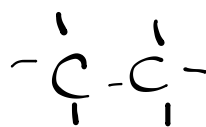
Hydrocarbons with general formula  $C_nH_{2n+2}$  contain all single bonds and are called **alkanes**

Ex.

Hydrocarbons with general formula  $C_nH_{2n}$  contain one double bond (**alkenes**) or are cyclic (**cycloalkanes**).

  
"closed ring"

Hydrocarbons with a general formula  $C_nH_{2n-2}$  have a triple bond (**alkynes**) or are cyclic with a double bond (**cycloalkenes**).

all single  
bonds

↓  
one double bond  
triple

or

cycloalkene



double bond or  
cycloalkane

# Homework

Assignment - Isomers of  $C_6H_{10}$