

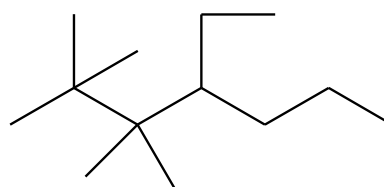
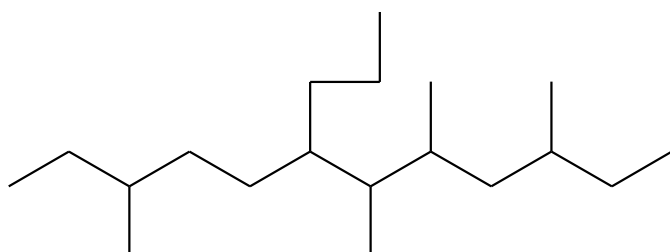
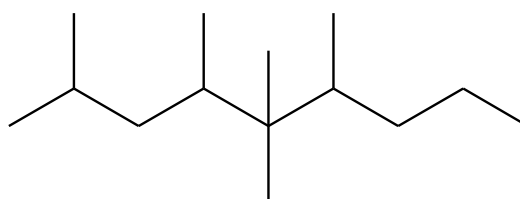
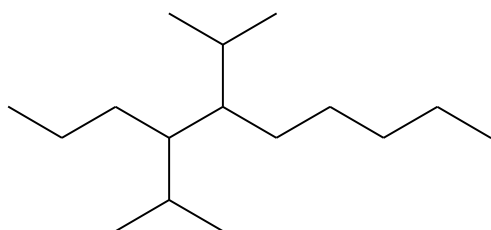
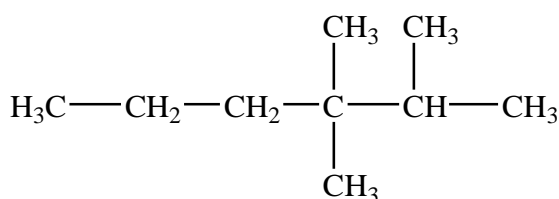
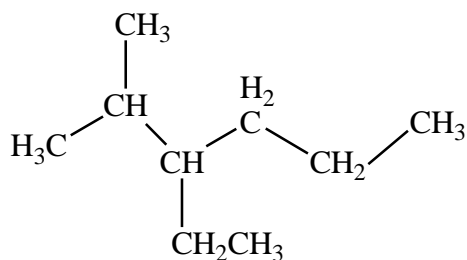
## Series of exercises N°2

### Nomenclature of Organic Compounds

#### Exercise N°1 :

##### A. Alkanes :

1. Give the name of the following compounds according to the I.U.P.A.C. system:

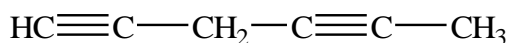
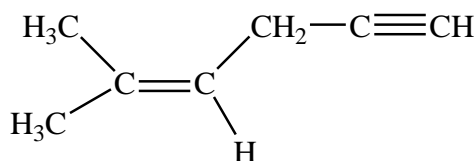
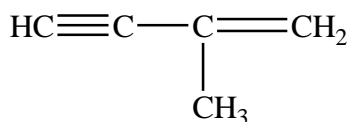
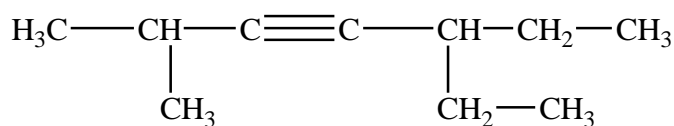
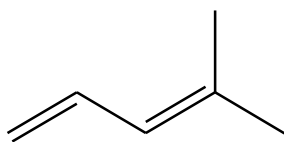
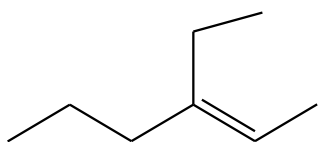
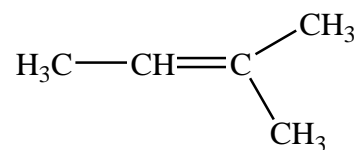
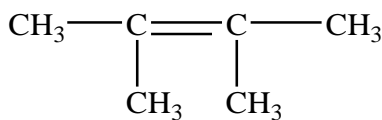
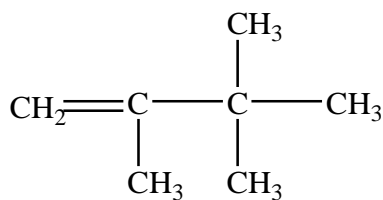


2. Represent the semi-developed formulas with the following names:

- ✓ 5-isobutyl-6-tert-butyl-dodecane.
- ✓ 3-Ethyl-4,4-dimethylheptane
- ✓ 8-Ethyl-4-isopropyl-5 (1'-methylpropyl) dodecane.
- ✓ 4-Isopropyl-6-méthyl-3-(1-méthylpropyl) octane.

**B. Alkenes, alkynes and polyenes**

**1. Name the following compounds:**



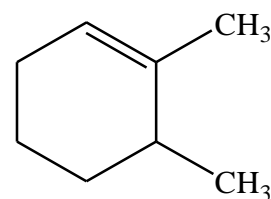
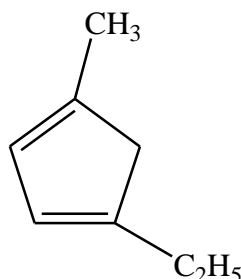
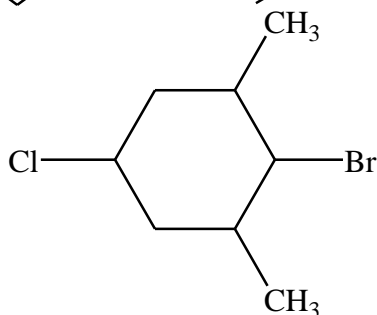
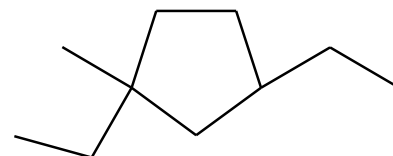
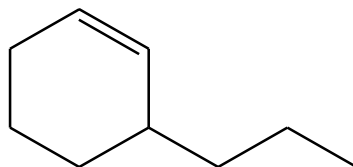
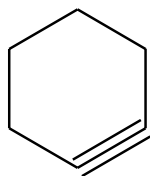
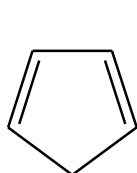
**2. Establish the semi-developed formula of the compounds bearing the following names:**

- ✓ Hept-5-ene-1-yne
- ✓ Hexa-1,3-diene-5-yne
- ✓ Penta-1,4-diyne

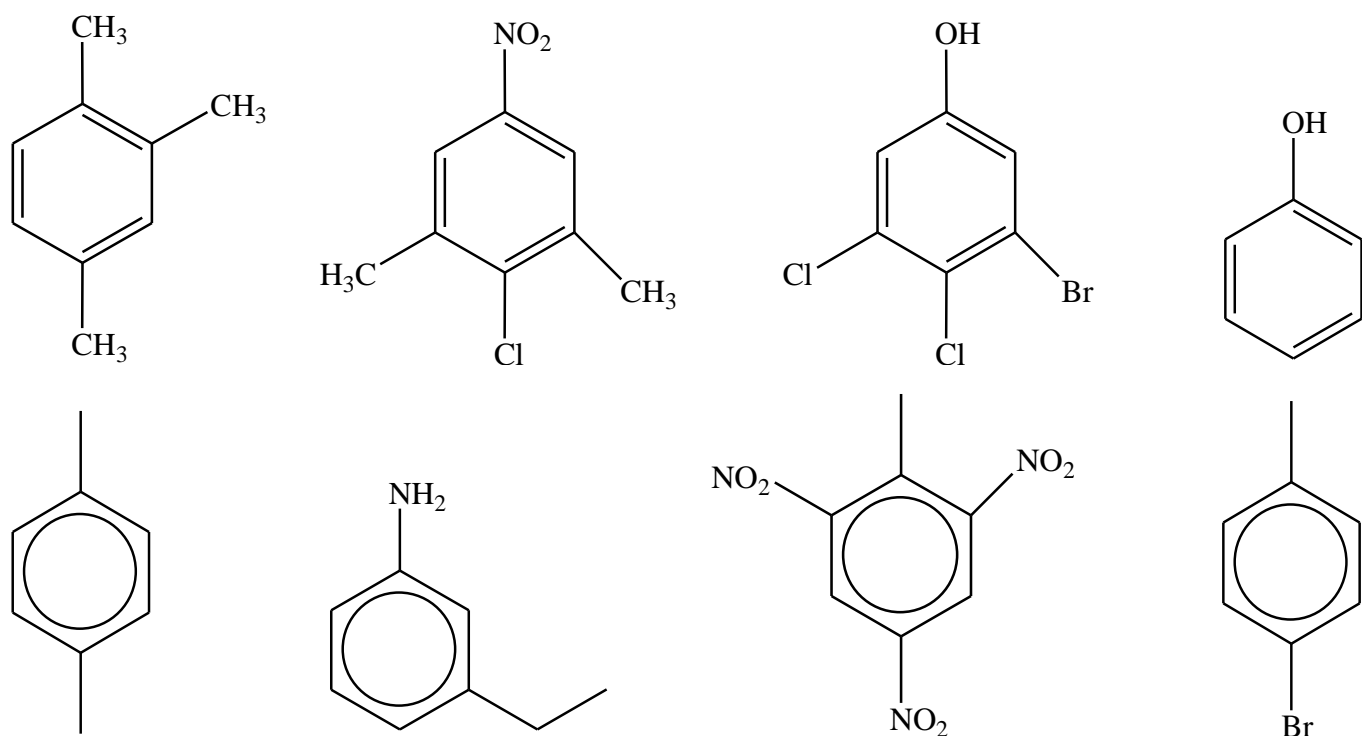
**Exercise N°2 :**

**A. The cycles :**

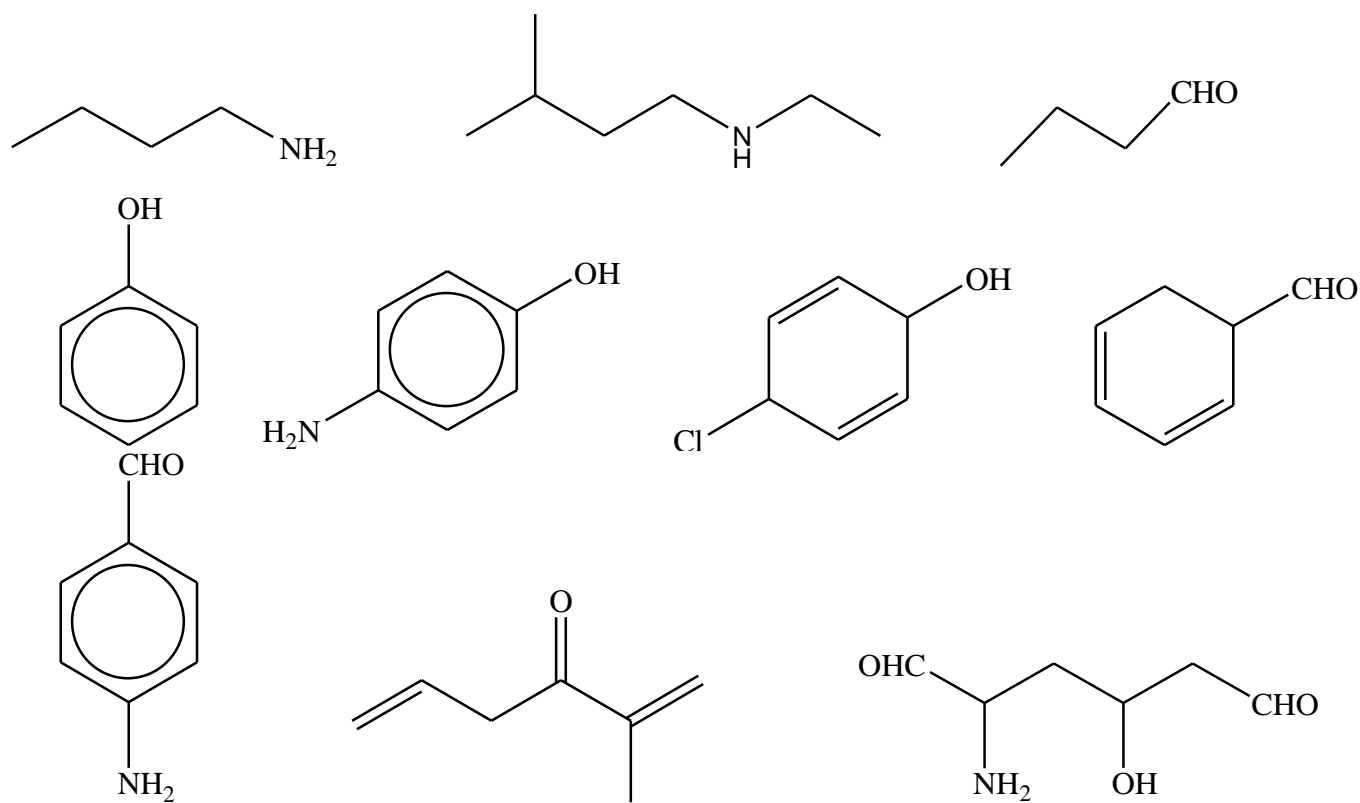
*Establish the names of the following compounds according to the I.U.P.A.C. system:*



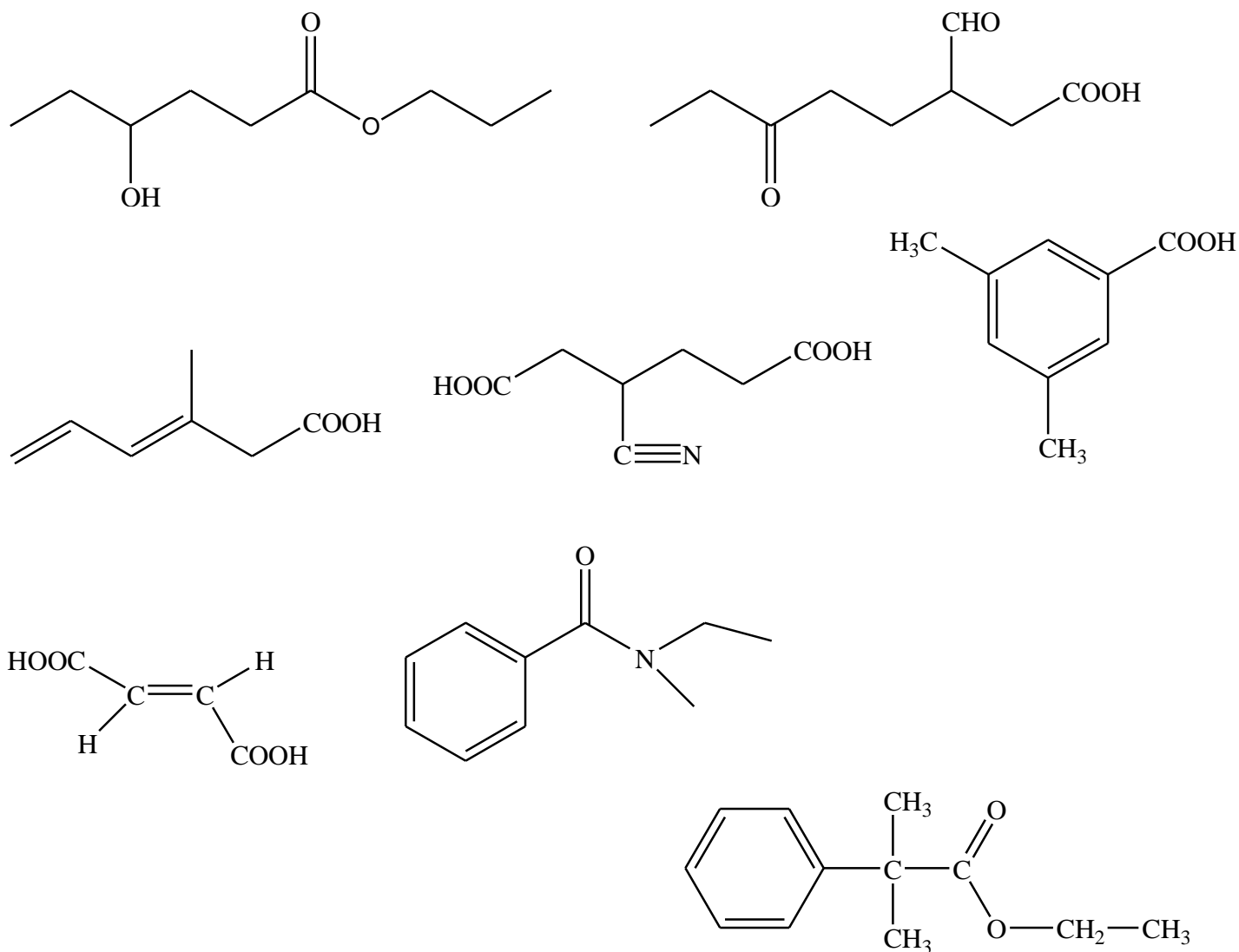
**B. Aromatic compounds:**



**C. Amines, alcohols, aldehydes and ketones:**



**D. Acides, esters and amides :**



**Exercise N°3 :**

***Establish the structural formula of the compounds bearing the following names:***

- ✓ 1, 2-Diclorocyclopentane
- ✓ 1-Bromo-3-chlorocyclobutane
- ✓ m-Dibromobenzene
- ✓ 1-Methylpropyl Ethanoate
- ✓ 4-Chloro-3-oxobutanoate ethyl
- ✓ 2-Methyl-3-aminohexanal
- ✓ 4-Chlorobut-3-enal
- ✓ 2-Hydroxy-2-methyl-4-oxobutanoic acid
- ✓ 2-Aminobutanoic acid
- ✓ 2-(N-ethylamino)-propanoic acid
- ✓ 2-Hydroxypropanedioic acid