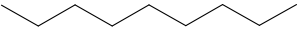
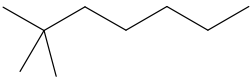
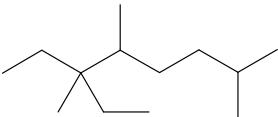
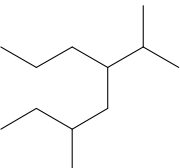
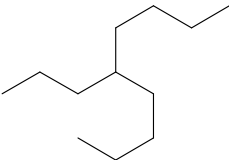
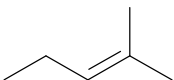
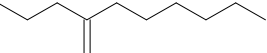
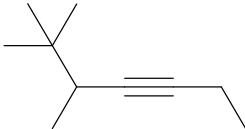

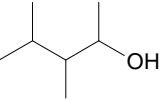
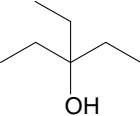
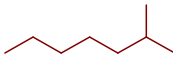

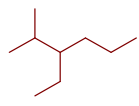

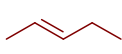
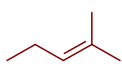
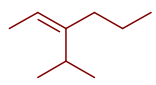
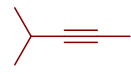
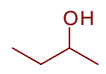
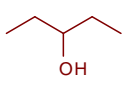


1. Name the following organic compounds drawn as line structures:

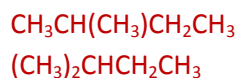
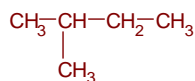
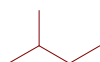
- a.  _____ nonane
- b.  _____ 2,2-dimethylheptane
- c.  _____ 6-ethyl-2,5,6-trimethyloctane
- d.  _____ 5-isopropyl-3-methyloctane
- e.  _____ 5-propylnonane
- f.  _____ 2-methyl-2-pentene
- g.  _____ 2-propyl-1-octene
- h.  _____ 5,6,6-trimethyl-3-heptyne (corrected)
- i.  _____ 2-methyl-2-propanol
- j.  _____ 3,4-dimethyl-2-pentanol (corrected)
- k.  _____ 3-ethyl-3-pentanol

2. Name the following organic molecules drawn as condensed structures:

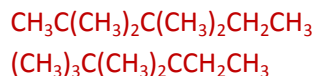
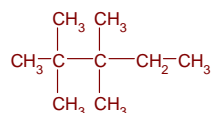
- | | | | |
|----|--|-------------------------------|---|
| a. | $\text{CH}_3(\text{CH}_2)_4\text{CH}(\text{CH}_3)_2$ | <u>2-methylheptane</u> |  |
| b. | $\text{CH}_3\text{C}(\text{CH}_3)_2\text{CH}_3$ | <u>2,2-dimethylpropane</u> |  |
| c. | $\begin{array}{c} \text{CH}_2-\text{CH}_2-\text{CH}_3 \\ \\ \text{CH}_3-\text{CH}-\text{CH}-\text{CH}_2-\text{CH}_3 \\ \\ \text{CH}_3 \end{array}$ | <u>3-ethyl-2-methylhexane</u> |  |
| d. | $(\text{CH}_3)_4\text{C}$ | <u>2,2-dimethylpropane</u> |  |
| e. | $\text{CH}_3\text{CH}=\text{CHCH}_2\text{CH}_3$ | <u>2-pentene</u> |  |
| f. | $\text{CH}_3\text{CH}_2\text{CH}=\text{C}(\text{CH}_3)_2$ | <u>2-methyl-2-pentene</u> |  |
| g. | $\begin{array}{c} \text{CH}_2-\text{CH}_2-\text{CH}_3 \\ \\ \text{CH}_3-\text{CH}=\text{C}-\text{CH}-\text{CH}_3 \\ \\ \text{CH}_3 \end{array}$ | <u>3-isopropyl-2-hexene</u> |  |
| h. | $(\text{CH}_3)_2\text{CHC}\equiv\text{CCH}_3$ | <u>4-methyl-2-pentyne</u> |  |
| i. | $\text{CH}_3\text{CH}_2\text{CH}(\text{OH})\text{CH}_3$ | <u>2-butanol</u> |  |
| j. | $(\text{CH}_3\text{CH}_2)_2\text{CHOH}$ | <u>3-pentanol</u> |  |

3. Draw the following molecules as a line structure and a condensed structure.

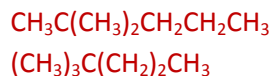
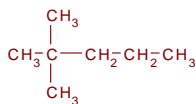
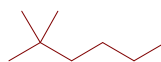
a. 2-methylbutane



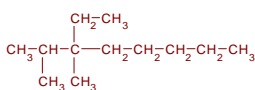
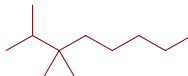
c. 2,2,3,3-tetramethylpentane



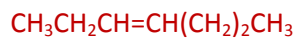
b. 2,2-dimethylhexane



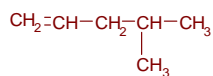
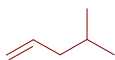
d. 3-ethyl-2,3-dimethyloctane



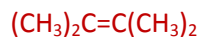
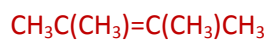
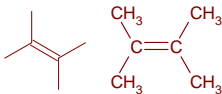
e. 3-heptene



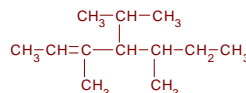
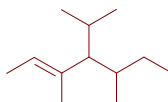
f. 4-methyl-1-pentene



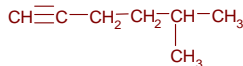
g. 2,3-dimethyl-2-butene



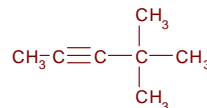
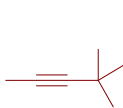
h. 3,5-dimethyl-4-isopropyl-2-heptene



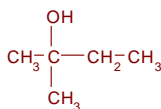
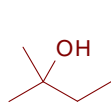
i. 5-methyl-1-hexyne



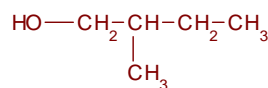
j. 4,4-dimethyl-2-pentyne



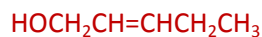
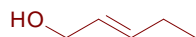
k. 2-methyl-2-butanol



l. 2,2-dimethyl-1-propanol



m. 2-penten-1-ol



n. 3-butyne-2-ol

