

[REVIEW]

- * Write the scientific term ??
- 1 Most compounds contain carbon element
[]
 - 2 A bond formed when two atoms share one or more pairs of electrons.
[]
 - 3 The simplest way to represent organic compounds []
 - 4 A formula that uses lines to show the bonds formed between atoms
[]
 - 5 The model gives a more realistic picture of the relative size of atoms and their arrangement in the molecule.
[]
 - 6 Compounds consisting of carbon and hydrogen only []

7 Gas is used as fuel and works by some ovens and most of the external grills and hot air balloons

[]

8 Hydrocarbons contain carbon atoms bound only by single bonds.

[]

9 Hydrocarbons contain at least one double or triple bond between carbon atoms.

[]

10 Compounds have the same chemical formula but differ in structural formulas and form. []

11 Cyclic hydrocarbon contains six carbon atoms

[]

② * Each of the following compounds as organic or inorganic.

CO_2 - CaS - C_2H_4 - C_2H_2 - CaCO_3 - C_3H_8

H_2O - C_4H_{10} - FeO - CH_3COOH .

③ * Compare and Contrast ethane-ethene-ethyne

ethane	ethene	ethyne	Comparison
			Similarities
			Chemical formula
			Saturation
			bonds
			Structural formulas

Explain the term saturated in relation to hydrocarbons. What are these compounds saturated with?

⑤ How boiling and melting points generally vary as branching in hydrocarbon isomers increases??

⑥ Cyclobutane is a cyclic saturated hydrocarbon containing four carbon atoms. Draw its structural formula. Are cyclobutane and butane isomers?

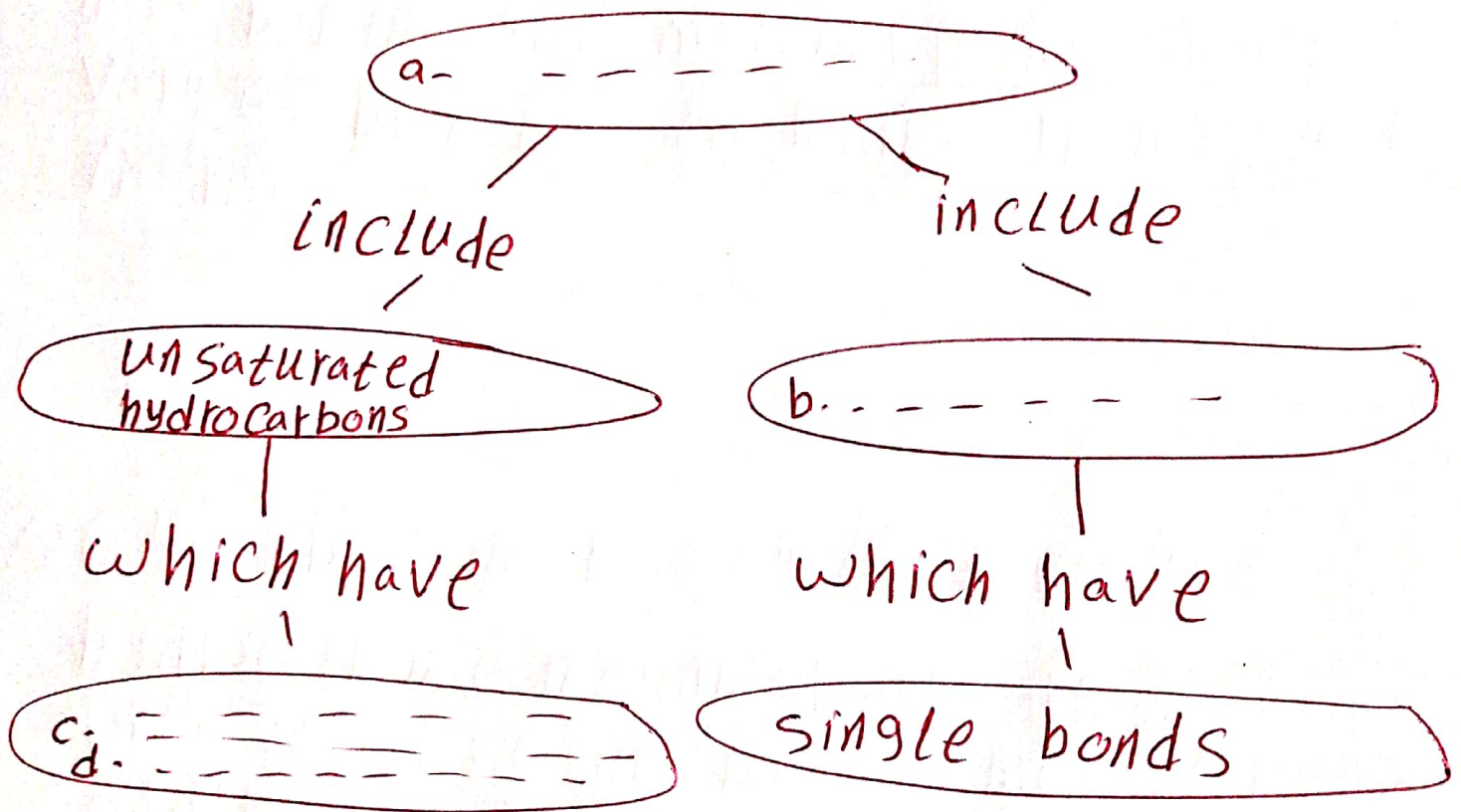
7 Which of the following compounds is the highest boiling point?

C_4H_{10} - C_5H_{12} - C_2H_6 - C_3H_8

8 How would you describe a benzene ring??

A-rare . B-stable . C-unstable D.saturated

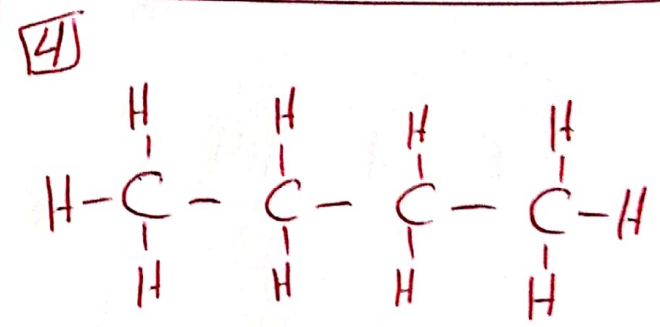
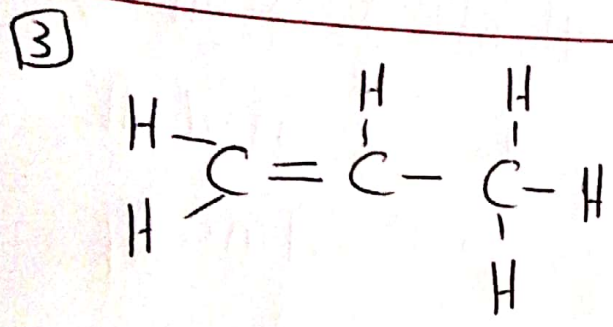
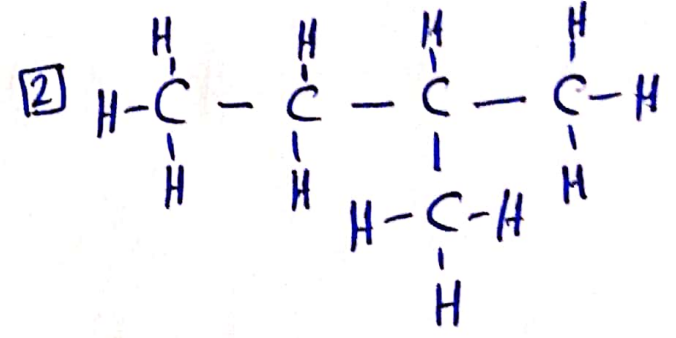
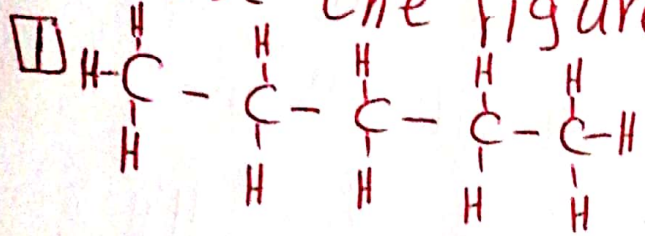
9 Complete.



مراجعة
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Use the figure below to answer question



A) Write the chemical formula of each of these hydrocarbons

- 1) ----- 2) -----
 3) ----- 4) -----

B) Identify which two are isomers?

C) None of the previous compounds is saturated?

or: which unsaturated compounds
 or: ANY

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* Choose the correct answer:

1] What atoms make up a hydrocarbon molecule?

A: Oxygen, Carbon, and hydrogen

B: Nitrogen and Carbon

C: Carbon and hydrogen

2] Any of the following compounds are organic?

A: CO_2

B: CO_3^{2-}

C: H_2O

D: CH_4

3] Any of the types of representations shows the realistic picture of the size of atoms

A: Chemical formulas

B: Structural formulas

C: Space filling models

4] Which of the following compounds is used in some welding torches

A: methane

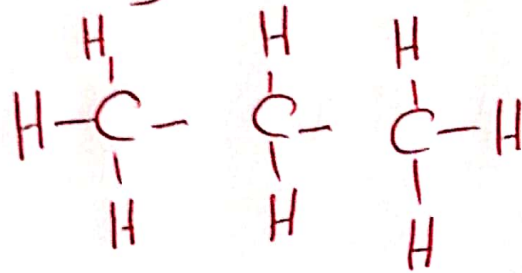
B: Ethane

C: Ethyne

5) Which of the following compounds helps ripen fruits (تفج الفواكه)

A: ethylene B: Ethyne C: Ethane

6) Use the figure below to answer questions X and Y

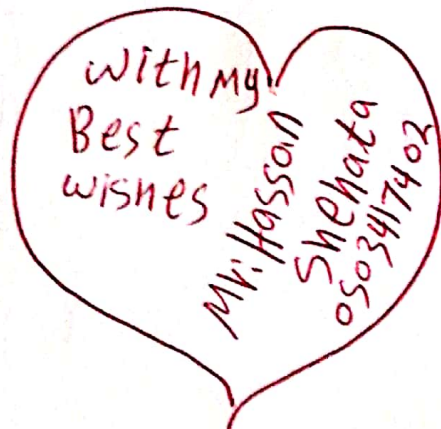


X) What is the chemical formula of the compound shown above??

A: C_3H_3 B: CH_8 C: C_6H_6 D: C_3H_8

Y) What is the name of this compound

A: Propane B: heptane
C: isoprene D: methane



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