

1.

Which of the following compounds does **not** have an isomer?

- A Cyclopropane
- B But-1-ene
- C Pentane
- D Ethene

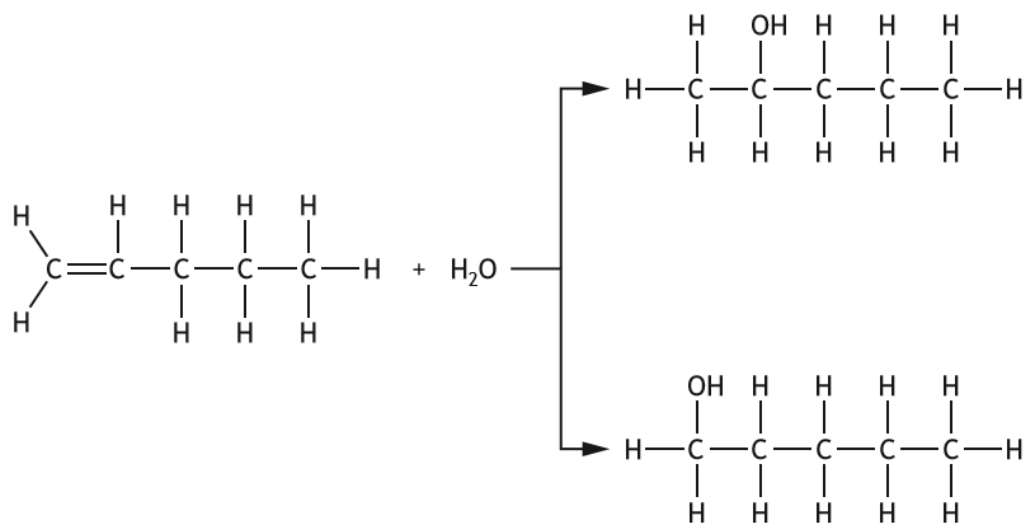
2.

The systematic name for $\text{CH}_3\text{CH}_2\text{C}(\text{CH}_3)\text{CHCH}_3$ is

- A 3-methylpentane
- B 2-methylpentane
- C 3-methylpent-2-ene
- D 2-methylpent-3-ene.

3.

When pent-1-ene undergoes an addition reaction with water, two products are formed.



Which of the following alkenes will also produce two products when it undergoes an addition reaction with water?

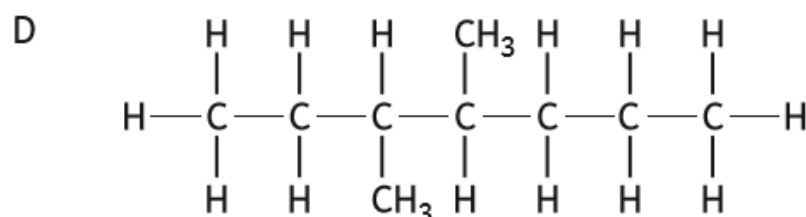
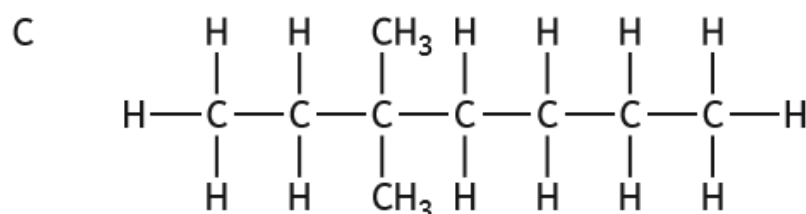
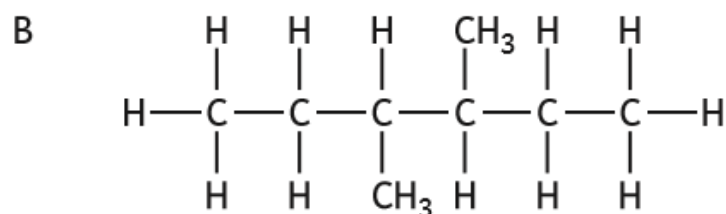
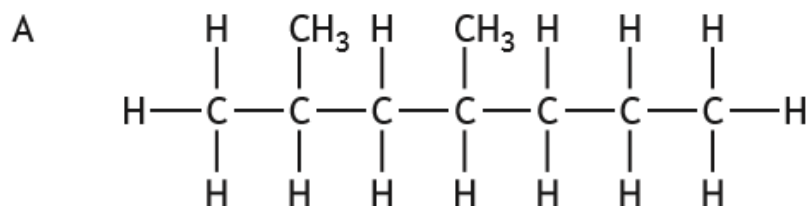
- A Oct-2-ene
- B Hex-3-ene
- C But-2-ene
- D Ethene

4.

The shortened structural formula for a compound is

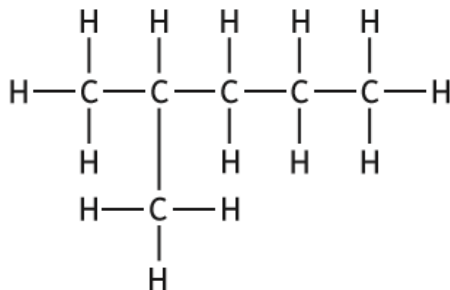


Which of the following is another way of representing this structure?

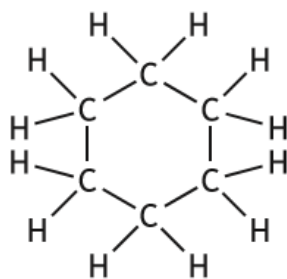


5.

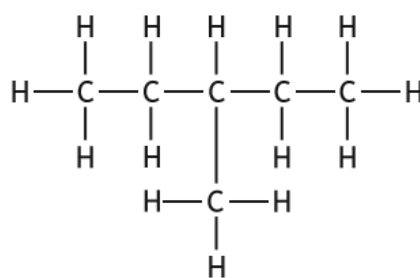
Identify which of the following is an isomer of



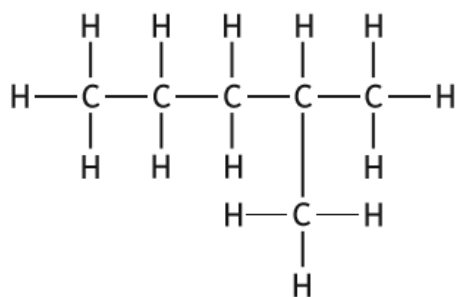
A



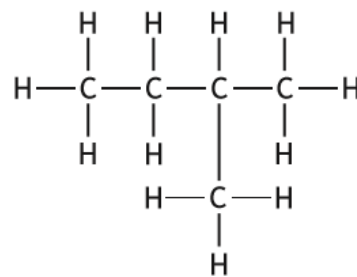
C



B



D



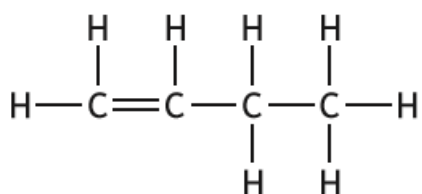
6

Which of the following could be the molecular formula for an alkane?

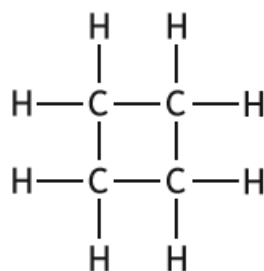
- A C_7H_{16}
- B C_7H_{14}
- C C_7H_{12}
- D C_7H_{10}

7

A student added bromine solution to compound X and compound Y.



Compound X



Compound Y

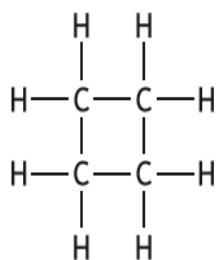
Which line in the table is correct?

	<i>Decolourises bromine solution immediately</i>	
	Compound X	Compound Y
A	no	no
B	no	yes
C	yes	yes
D	yes	no

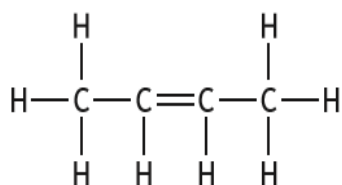
8.

Which of the following compounds belongs to the same homologous series as the compound with the molecular formula C_3H_8 ?

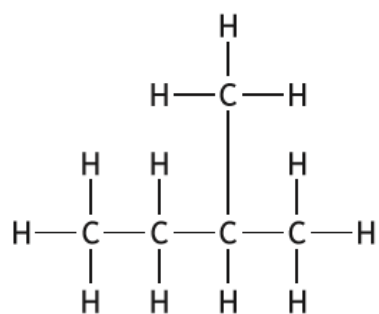
A



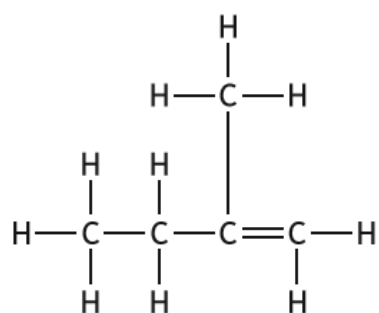
B



C

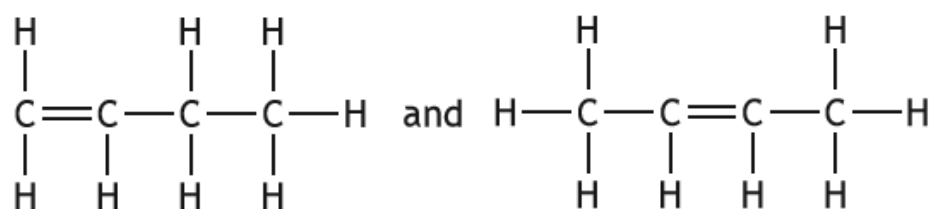


D



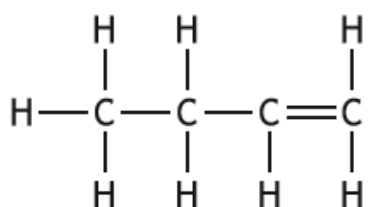
9

Two isomers of butene are

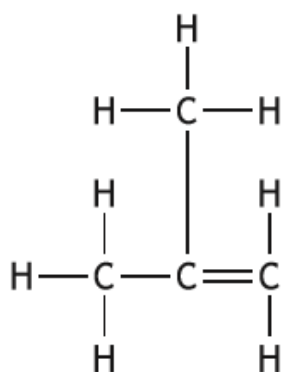


Which of the following structures represents a third isomer of butene?

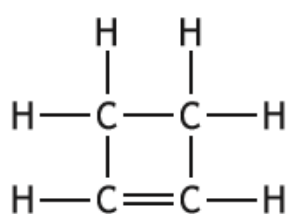
A



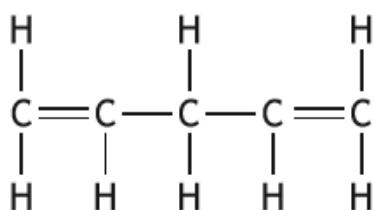
B



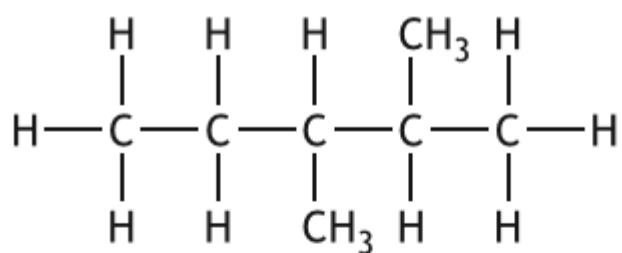
C



D



10.



The name of the above compound is

- A 2,3-dimethylpropane
- B 3,4-dimethylpropane
- C 2,3-dimethylpentane
- D 3,4-dimethylpentane.