

## Alkene WS II

Name: \_\_\_\_\_

1. Ethene is a gas with a slightly sweet odor; certain plants produce it naturally. It is found in petroleum and natural gas. It is one of the most important organic compounds in the chemical industry. It is used in the production of alcohol, solvents, plastics, antifreeze, detergents, synthetics, and it is used to hasten the ripening of fruit.

Write the formula for ethene and draw its structure.

2. Given the structural formulas, name the following compounds.

a.  $\text{CH}_3\text{-CH}=\text{CH}_2$  \_\_\_\_\_

b.  $\text{CH}_3\text{-CH}=\text{CH-CH}_3$  \_\_\_\_\_

c.  $\text{CH}_3\text{-CH}_2\text{-CH}_2\text{-CH}=\text{CH-CH}_3$  \_\_\_\_\_

3. Draw the structural formulas for the following compounds.

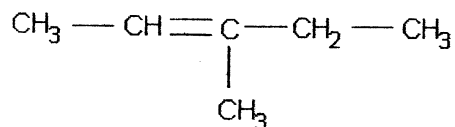
a. 2-methyl-3-heptene

b. 2-pentene

c. 2,3-dimethyl-1-butene

d. 2-methyl-2-butene

4. Name the following branched alkene.



# Alkenes WS

Name: \_\_\_\_\_

Draw the following alkenes

① 2-hexene	⑥ cis-2-butene
② 3-heptene	⑦ trans-2-butene
③ 1-propene	⑧ 2-methylpropene
④ 4-octene	⑨ decene
⑤ 2-methyl, 4-octene	⑩ 2-methyl-1,3-butadiene