
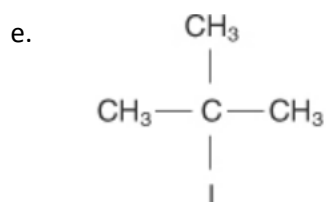
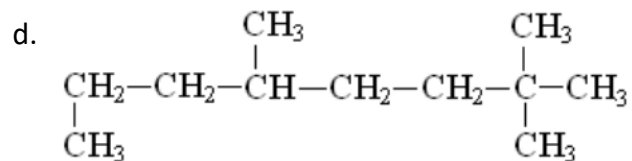
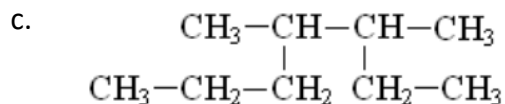
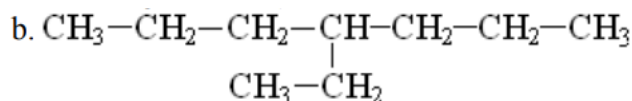
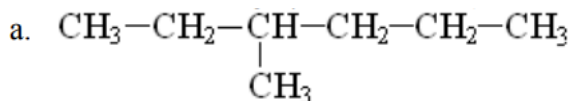


1. Fill in the blanks of the following table:

| Alkane & Formula                         | Structural Formula   | Condensed Structural Formula  | Skeletal Formula  |
|--|--|---|---|
|  | $  \begin{array}{ccccccccc}  & \text{H} & \text{H} & \text{H} & \text{H} & \text{H} & & & \\  &   &   &   &   &   & & & \\  \text{H} & - \text{C} & - \text{C} & - \text{C} & - \text{C} & - \text{C} & - \text{H} & & \\  &   &   &   &   &   & & & \\  & \text{H} & \text{H} & \text{H} & \text{H} & \text{H} & & &   \end{array}  $ |   |   |
|  |  | CH <sub>3</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub> |   |
| Butane<br>C <sub>4</sub> H <sub>10</sub> |  |   |  |

2. Name the following hydrocarbons. (Make sure you find the longest chain!)



3. Draw structures for the following (use the structural formula of your choice).

a. 3-methylhexane

b. 2,2,3,3-tetramethylpentane

c. trichloromethane

d. 5-butyl-6,6-diethyl-3,3,7-trimethyldecane