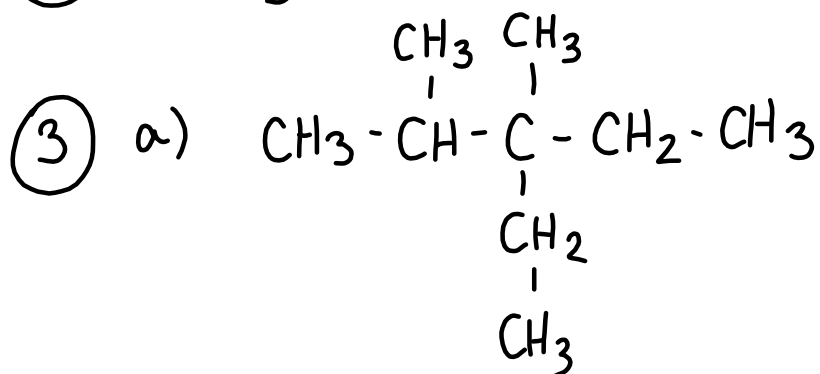


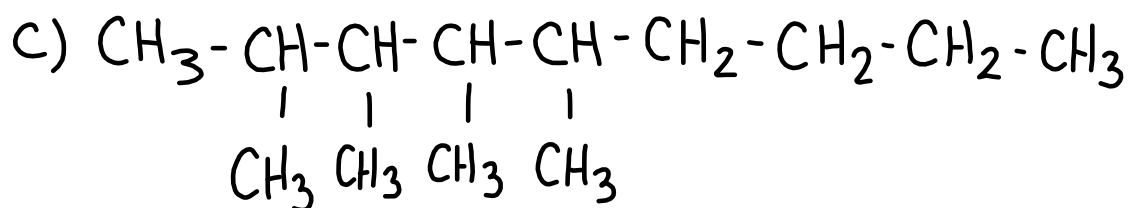
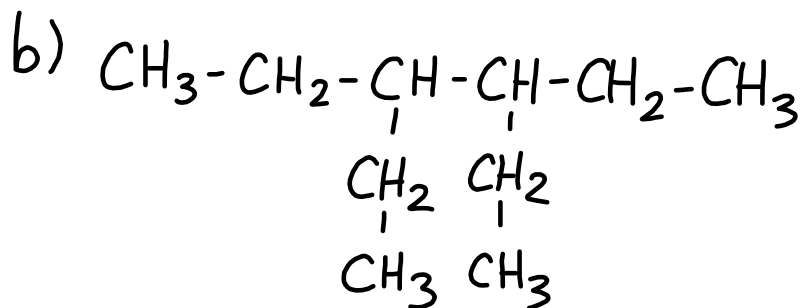
22.1

1. 5-ethyl-3,3,5-trimethyloctane

② 3-ethyl-2,3,5,5-tetramethylheptane

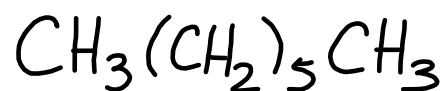


May 30-1:03 PM

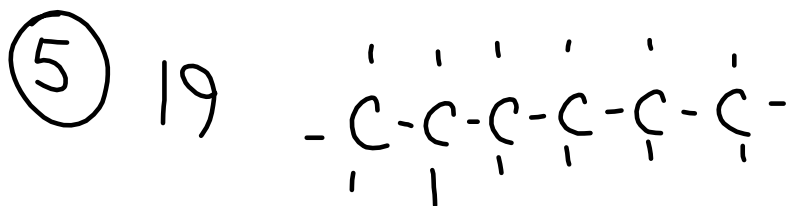
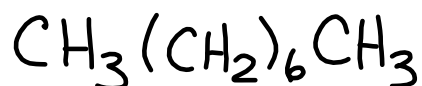


May 30-1:21 PM

④ 7 carbons = heptane



8 carbons = octane



May 30-1:27 PM

22.2

① 2,4-dimethyl-2-hexene

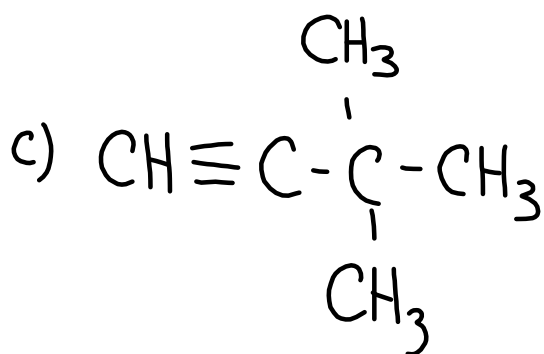
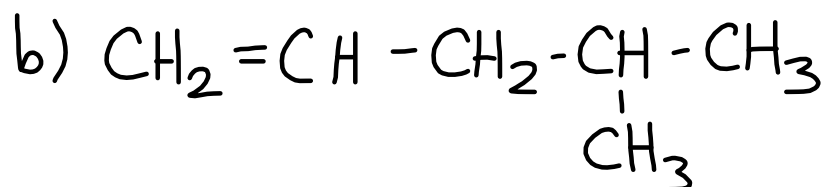
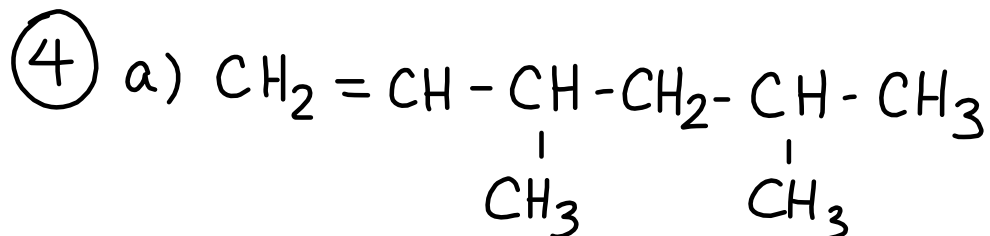
② 3,4-dimethyl-1-pentyne

③ a) $\text{CH} \equiv \text{C} - \text{CH}_2 - \text{CH}_2 - \text{CH}_3$ 1-pentyne

b) $\text{CH}_3 - \text{C} \equiv \text{C} - \text{CH}_2 - \text{CH}_3$ 2-pentyne

c) $\text{CH} \equiv \text{C} - \underset{\text{CH}_3}{\underset{|}{\text{CH}}} - \text{CH}_3$ 3-methyl-1-butene

May 30-1:29 PM

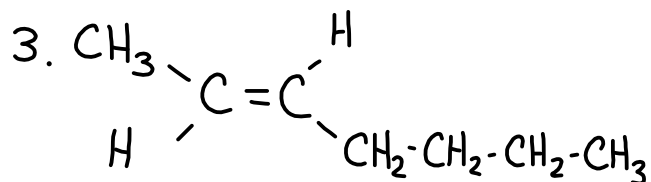


May 30-1:35 PM

22.3

1. cis-2-pentene

2. trans-6-methyl-3-heptene



4. a, d

5. carbon 3

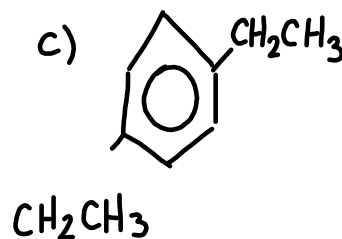
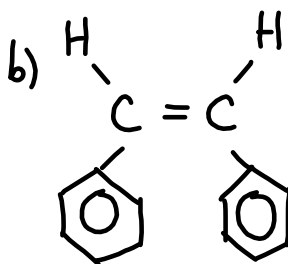
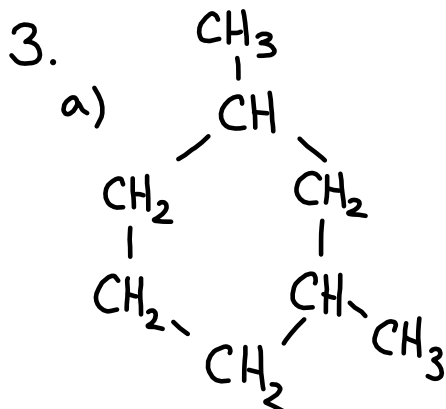
6. a, c

May 30-1:38 PM

22.4

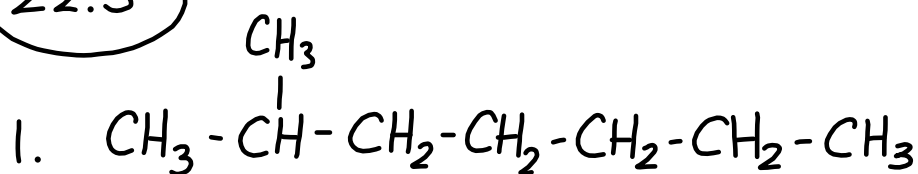
1. 1-ethyl-3-methylbenzene

2. 5-phenyl-2-hexene



May 30-2:35 PM

22.5

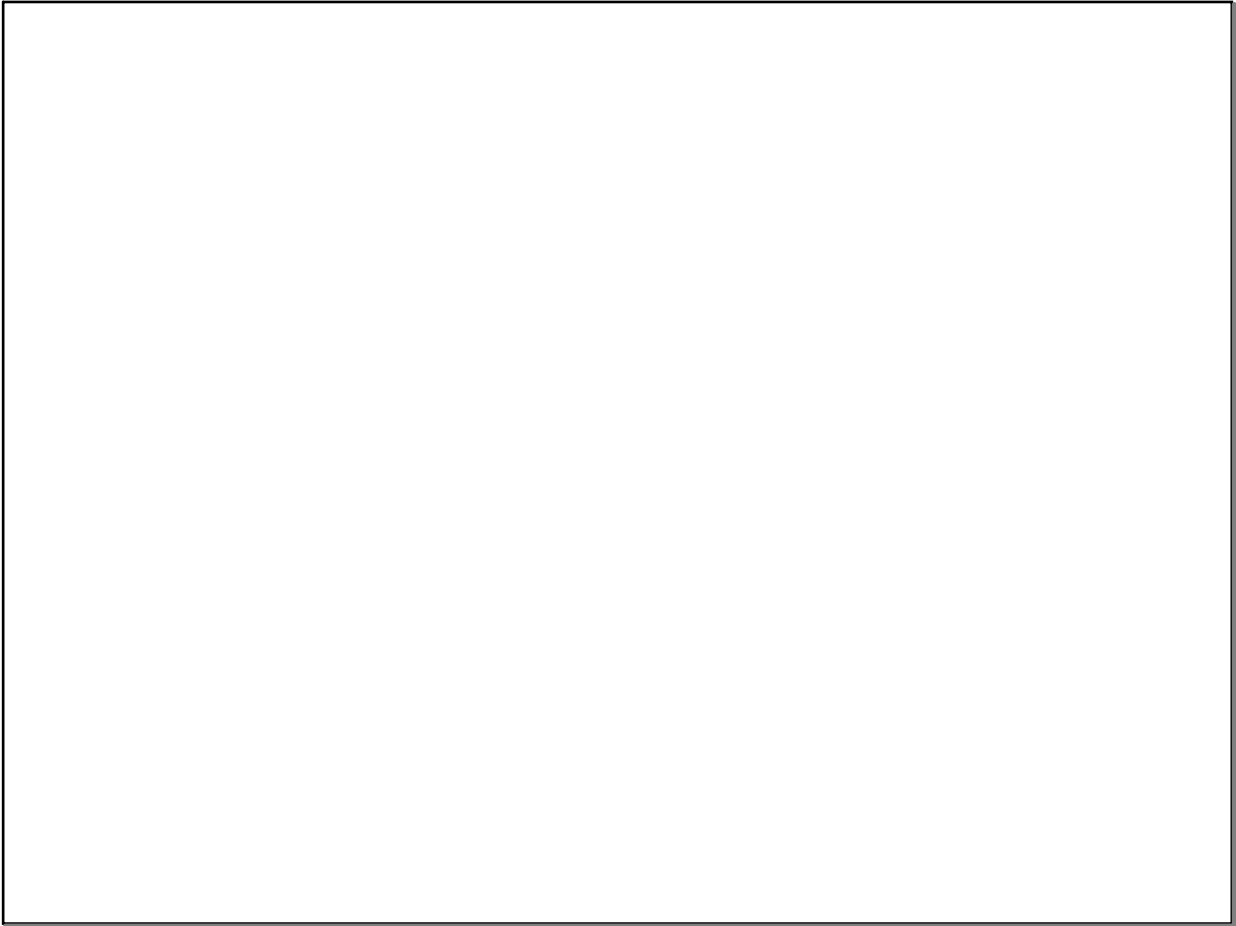
2. natural gas - low molar mass (CH_4 , C_2H_6)

methane, ethane, propane, butane: straight-chain alkanes

gasoline: 5-12 carbon chains

kerosene: 12-15 C's

May 30-2:37 PM



Jan 9-4:59 PM