

問1 次の化学英語を和訳せよ。

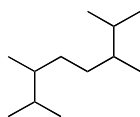
- (1) organic chemistry    (2) neutral    (3) substituent    (4) hydrolysis    (5) nucleophile  
(6) polarity    (7) experiment    (8) yield    (9) solvent    (10) boiling point

問2 次の英文を和訳せよ。

- (1) One of the most familiar compounds of carbon is methane,  $\text{CH}_4$ , the main component of natural gas.  
(2) A molecule with a triple bond is acetylene,  $\text{C}_2\text{H}_2$ . Here, each carbon is bound to two other atoms (one carbon atom and one hydrogen atom).  
(3) We can condense the structural formulas by omitting some of the C-H bonds.  
(4) Give the formulas for the normal alkanes with six and eight carbon atoms.  
(5) Because of their different structures, these structural isomers have different properties.  
(6) For a branched hydrocarbon, the longest continuous chain of carbon atoms gives the root name for the hydrocarbon.

問3 次の化合物を英語で命名せよ。

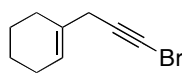
(1)



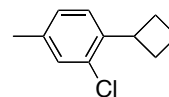
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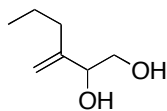
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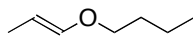
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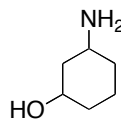
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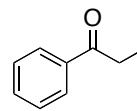
(6)



(7)



(8)



問4 次の名前の化合物の構造を記せ。

- (1) 3-chloro-8-(cyclopenta-2,4-dien-1-yl)naphthalene-2-thiol  
(2) 5-(2,6-dichlorophenyl)pentane-1,2,5-triamine  
(3) 7-(cycloprop-2-en-1-yloxy)heptan-2-one  
(4) *N,N'*-dimethylocta-1,4-dien-7-yne-3,6-diamine