**Souhrnné opakování.**

1. Napiš vzorce následujících uhlovodíků:

a) pentan
b) hex-1-en
c) 2-methyl-pentan
d) 2,4-dimethyl-oktan
e) 4-ethyl-3-methyl-hept-1-yn
f) 3,3-diethyl-okta-1,4-dien
g) cyklobutan
h) pentyl-cyklooktan
i) 1,1,3-trimethyl-cyhlohexan
j) cyklopenten
k) cyklopropyl-cyklobutan
l) 1-ethyl-cyklohex-1-en
m) toluen

2. Pojmenuj uhlovodíky následujících vzorců:

a) $CH_3 - CH_2 - CH_2 - CH_3$

b) $CH_2 = CH - \underset{\displaystyle CH_3}{\underset{|}{CH}} - CH_2 - CH_2 - CH_3$

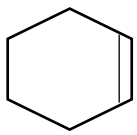
c) $CH \equiv C - C \equiv C - CH_2 - C \equiv C - CH_2 - CH_3$

d) $CH_3 - CH_2 - \underset{\displaystyle CH_2 - CH_3}{\underset{|}{CH}} - \underset{\displaystyle CH_2 - CH_2 - CH_3}{\underset{|}{CH}} - CH_2 - \underset{\displaystyle CH_2 - CH_2 - CH_3}{\underset{|}{CH}} - CH_2 - \underset{\displaystyle CH_3}{\underset{|}{CH}} - CH_2 - CH_3$

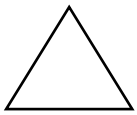
e) $CH_3 - \underset{\displaystyle CH_3}{\underset{|}{\overset{\displaystyle CH_3}{\overset{|}{C}}}} - CH_2 - CH_2 - CH_3$

f) $CH_2 = \underset{\displaystyle CH_3}{\underset{|}{C}} - \underset{\displaystyle CH_2 - CH_3}{\underset{|}{CH}} - CH = CH - \underset{\displaystyle CH_2 - CH_3}{\underset{|}{CH}} - CH_2 - CH_3$

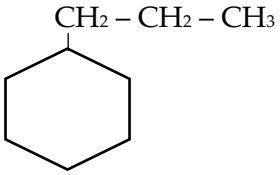
g)



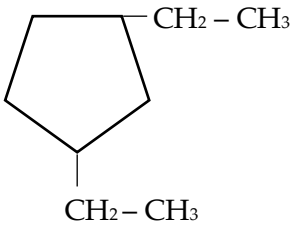
h)



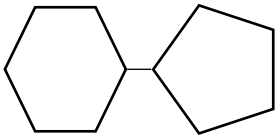
i)



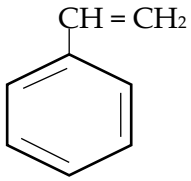

j)



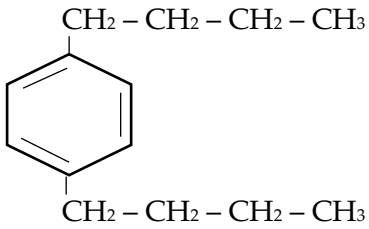

k)



l)




m)



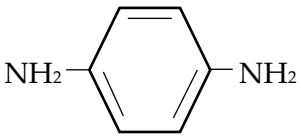

3. Napiš vzorce následujících derivátů uhlovodíků:

a) dichlormethan
b) ethanol
c) 1,3-dinitrobenzen
d) propanal
e) kyselina mravenčí
f) fluoroctová kyselina
g) cyklohexanon
h) propylester kyseliny butanové
i) 3-methoxyhexan
j) 1,2-diethoxyethan

k) ethylpentanoát
l) kyselina šťavelová
m) 3-ethyl-2,4-dijodmáselná kyselina

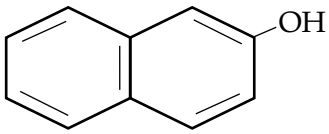
4. Napiš názvy derivátů uhlovodíků následujících vzorců:

a) $CF_3 - CF_3$

b) 

c) $CH_2 = \underset{\displaystyle Cl}{\underset{|}{C}} - CH_2 - CH_3$

d) $\underset{\displaystyle OH}{\underset{|}{CH_2}} - CH_2 - \underset{\displaystyle OH}{\underset{|}{CH}} - CH_2 - \underset{\displaystyle OH}{\underset{|}{CH_2}}$

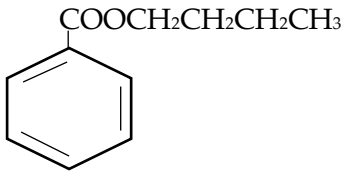
e) 

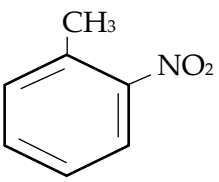
f) $CH_3 - CH_2 - CH_2 - CH_2 - CH_2 - CHO$

g) $CHO - \underset{\displaystyle Br}{\underset{|}{CH}} - CH_2 - CH_2 - CHO$

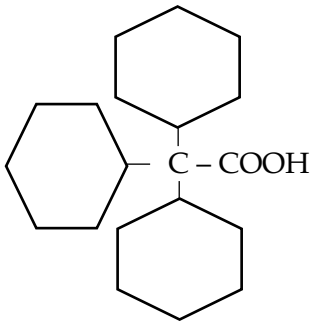
h) $CH_3 - \underset{\displaystyle Br}{\underset{|}{CH}} - CO - CO - CH_2 - CH_2 - CH_3$

i) $HCOOCH_2CH_3$

j) 

k) 

l)




m)