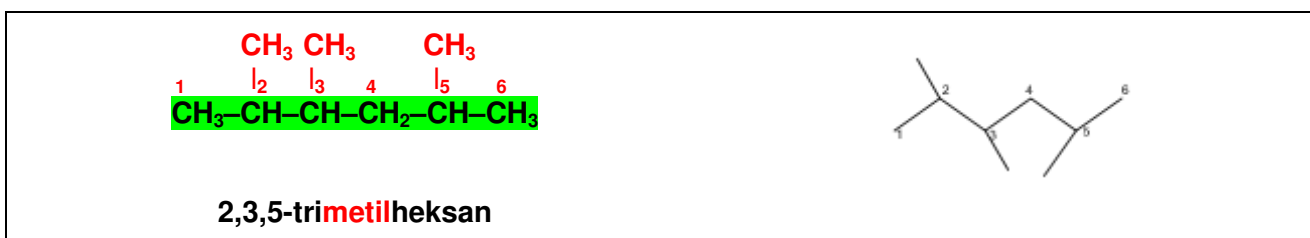
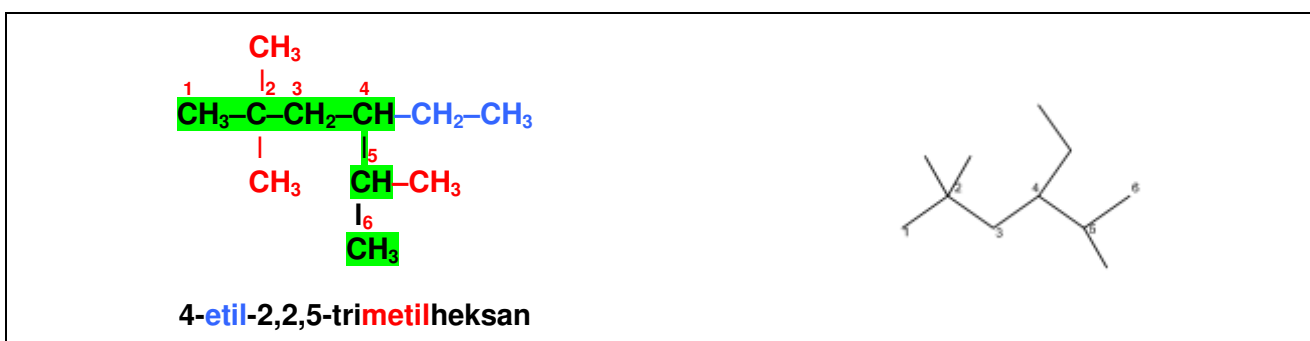
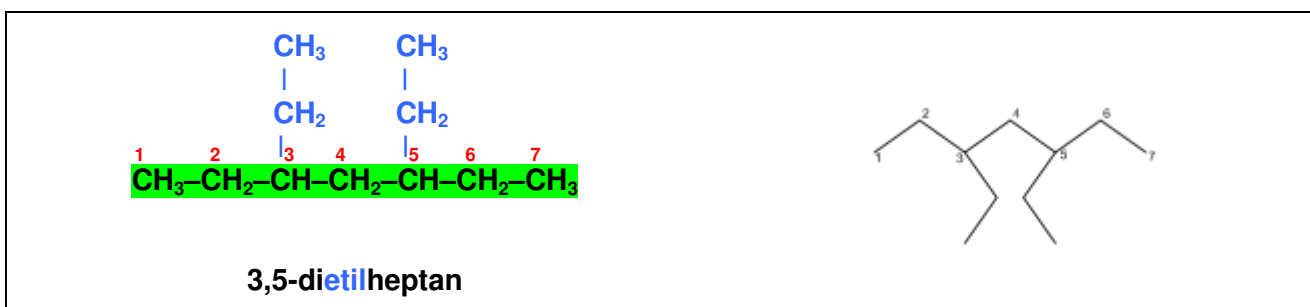
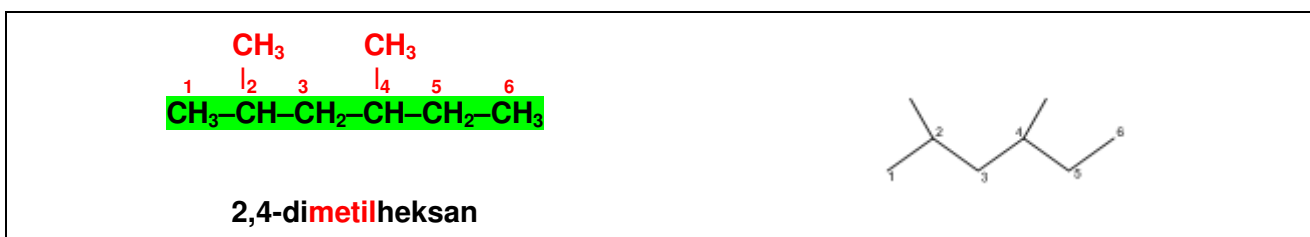
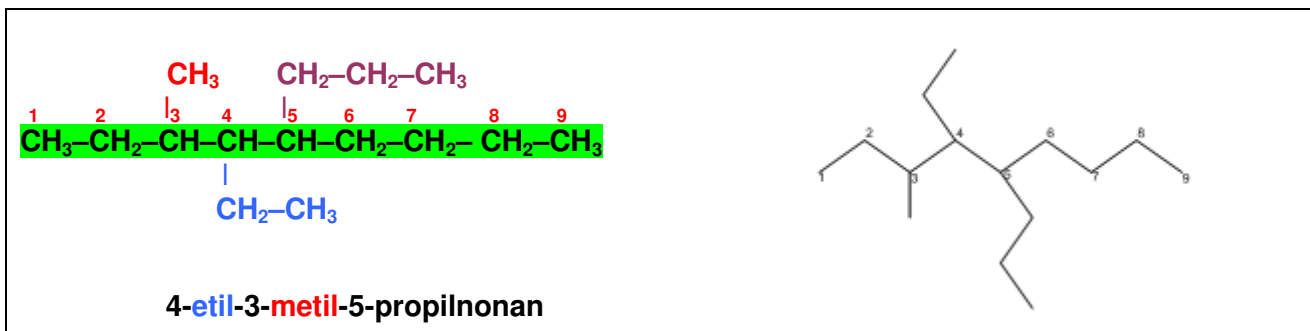


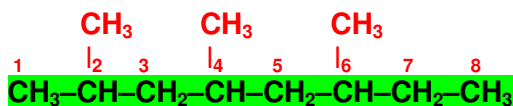
ALKANI

NOMENKLATURA – PRIMJERI ZADATAKA

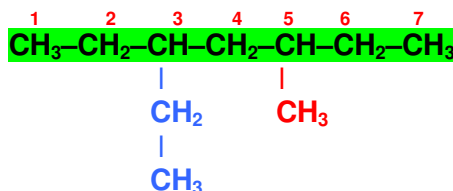
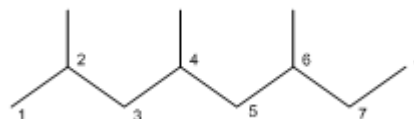
1. Odredi nazive spoja i prikaži formulom sa veznim crticama



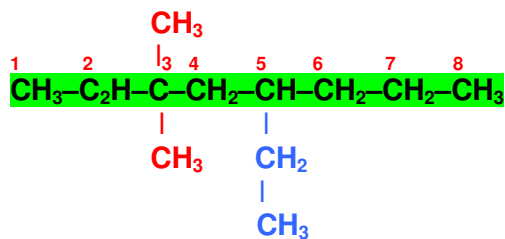
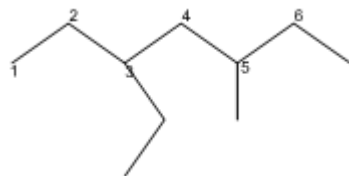
2. Napiši sažete strukturne formule i formule veznim crticama za slijedeće spojeve



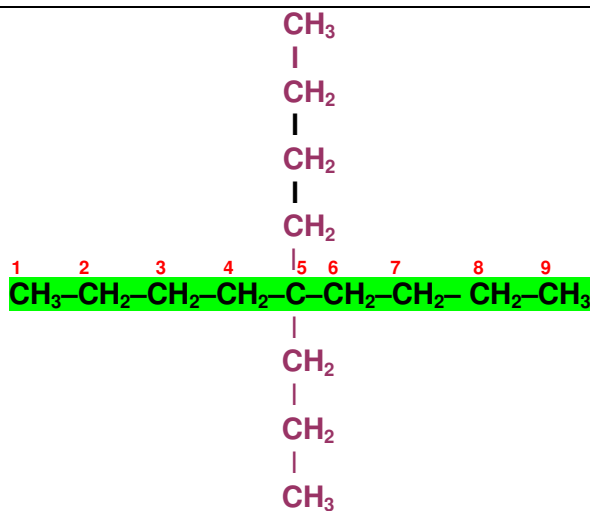
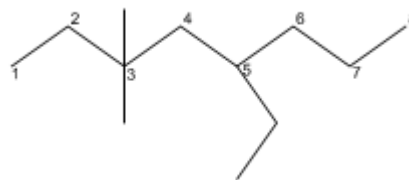
2,4,6-trimetiloktan



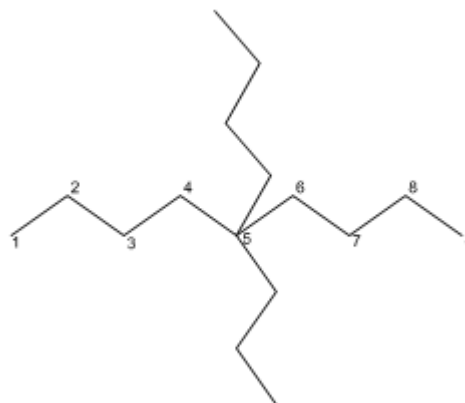
3-etil-5-metilheptan



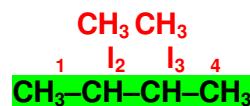
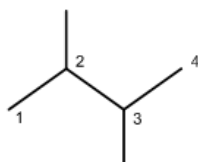
5-etil-3,3-dimetiloktan



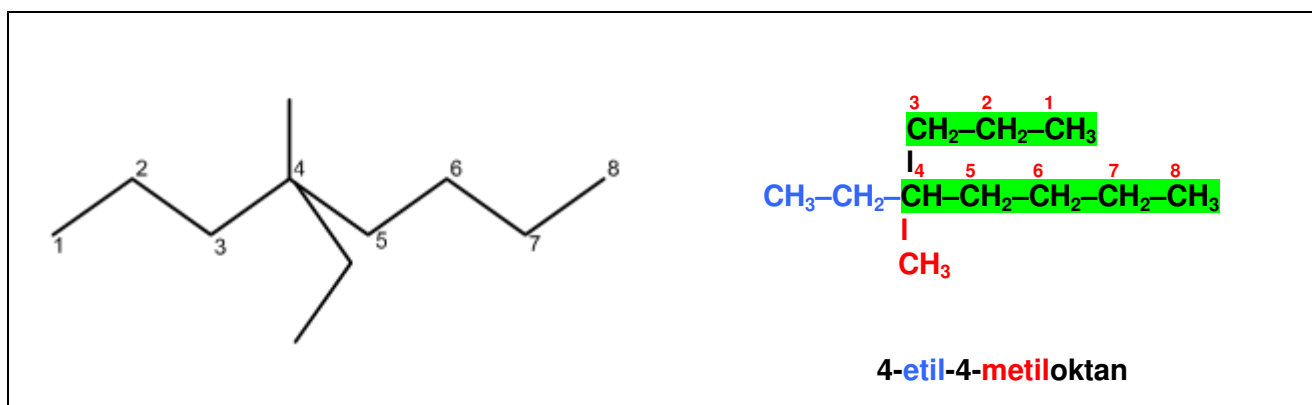
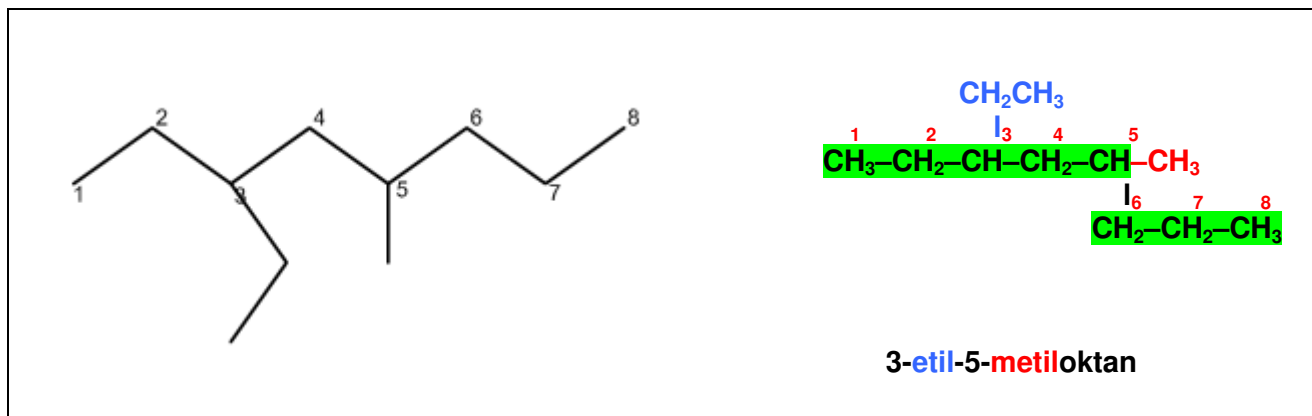
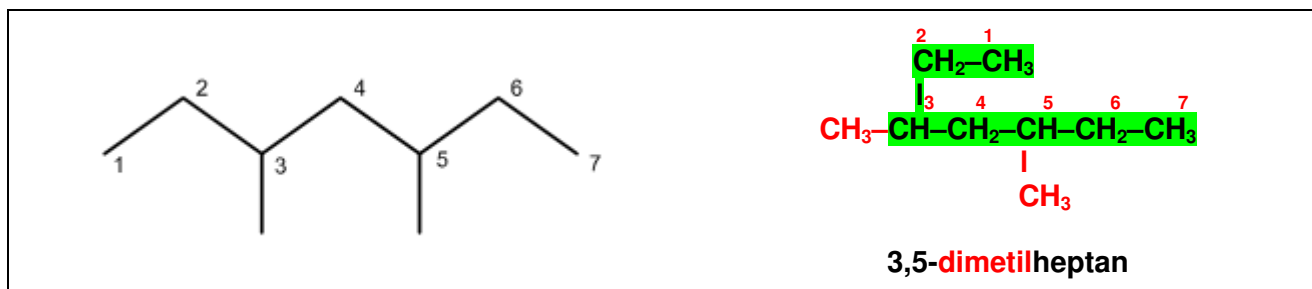
5-butil-5-propilnonan



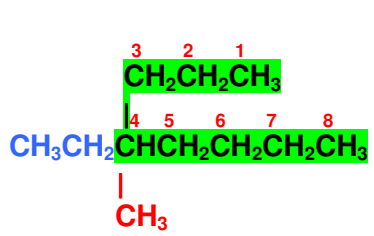
3. Odredi nazive spoja i prikaži sažete strukturne formule



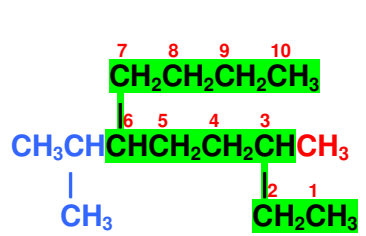
2,3-dimetilbutan



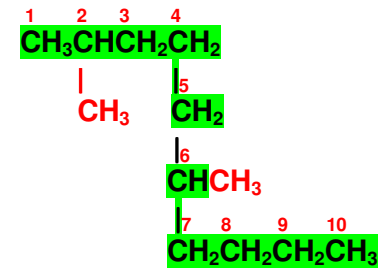
Ostali primjeri



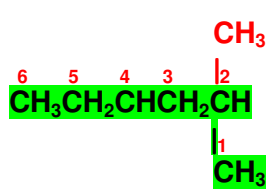
4-etil-4-metiloktan



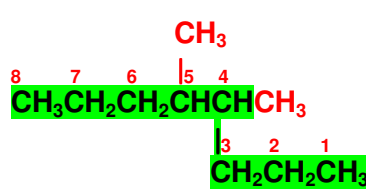
6-izopropil-3-metildekan



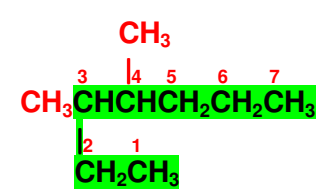
2,6-dimetildekan



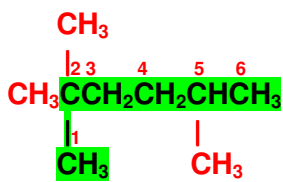
2-metilheksan



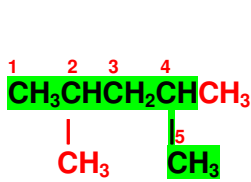
4,5-dimetiloktan



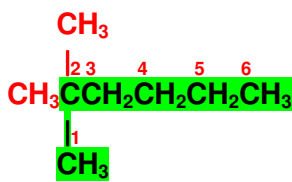
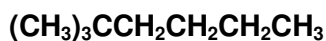
3,4-dimetilheptan



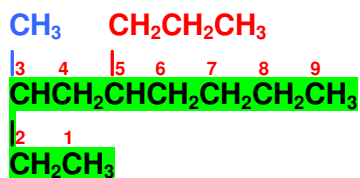
2,2,5-trimetilheksan



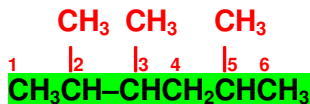
2,4-dimetilpentan



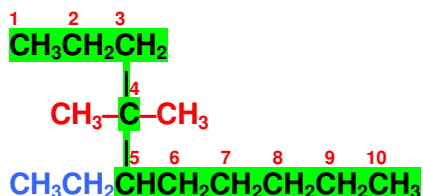
2,2-dimetilheksan



3-metil-5-propilnonan

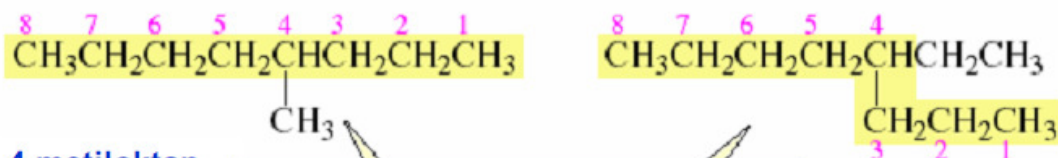


2,3,5-trimetilheksan



5-etil-4,4-dimetildekan

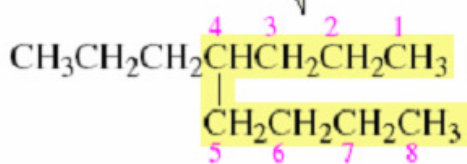
1. Odredi broj C-atoma u najdužem kontinuiranom karbonovom lancu



4-metiloktan

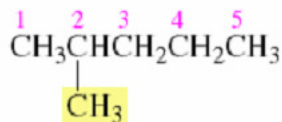
Tri različita alkana kod kojih osnovni ugljikovodik ima osam C-atoma

4-etiloktan

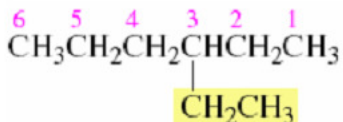


4-propiloktan

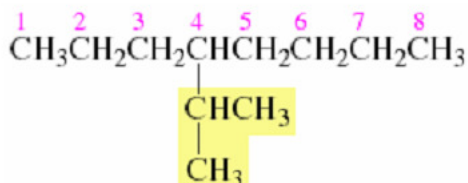
2. Imenuj alkilne supstituente i brojevima označi C-atome tako da supstituenti dobiju najmanji mogući broj.



2-metilpentan

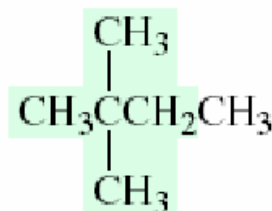
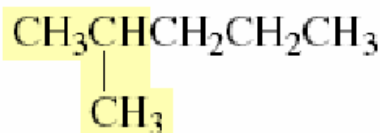


3-etilheksan



4-izopropiloktan

Samo sistematska imena imaju brojeve;
trivijalna imena nikada ne sadrže brojeve.



trivijalno ime:

izoheksan

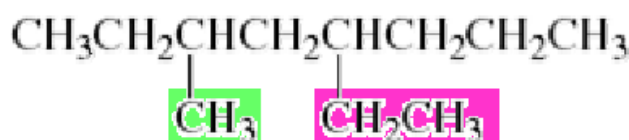
neoheksan

sistematsko ime:

2-metilpentan

2,2-dimetilbutan

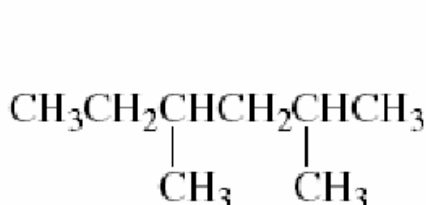
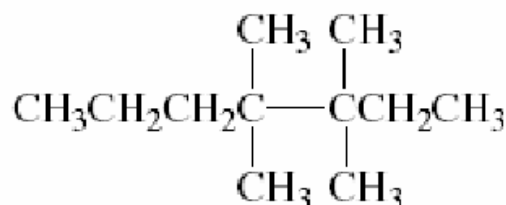
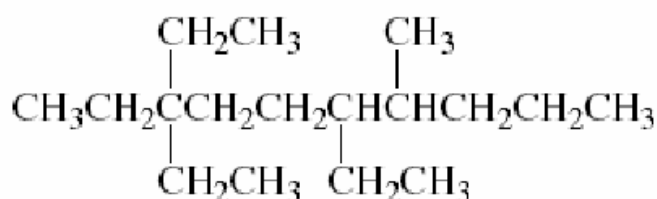
3. Supstituenti se navode abecednim redom.



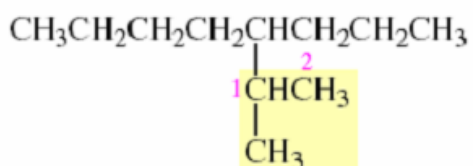
5-**etil**-3-**metil**oktan
ne

4-**etil**-6-**metil**oktan
jer je 3 < 4

Više istovrsnih nerazgranatih supstituenata
obilježava se prefiksom *di*, *tri*, *tetra*....

2,4-**di**metilheksan3,3,4,4-**tetra**metilheptan3,3,6-**tri**etil-7-**metil**dekan

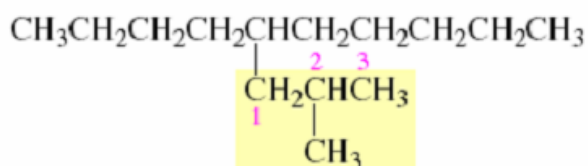
Kod razgranatih supsttuenata, dozvoljena su trivijalna imena: izopropil-, izobutil-, sec-butil, *tert*-butil...



4-izopropiloktan

ili

4-(1-metiletil)oktan

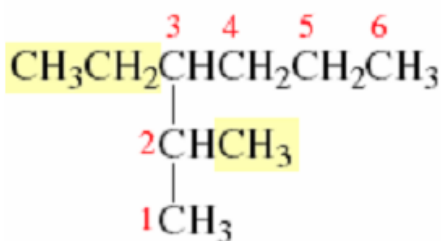
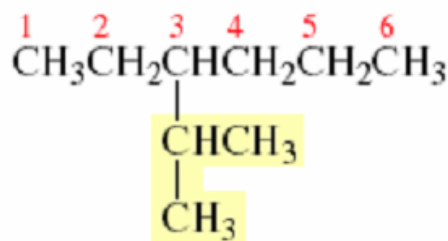


5-izobutildekan

ili

5-(2-metilpropil)dekan

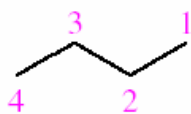
U slučaju dva lanca sa istim brojem C-atoma, bira se onaj sa većim brojem supsttuenata:

3-etil-2-metilheksan
(dva supsttuenta)

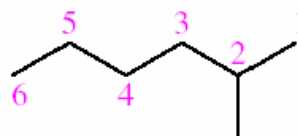
ne

3-izopropilheksan
(jedan supsttuent)

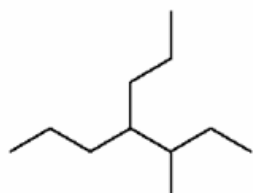
Skraćene- *skeletne*- strukture acikličkih ugljikovodika:



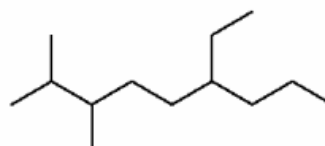
butan



2-metilheksan

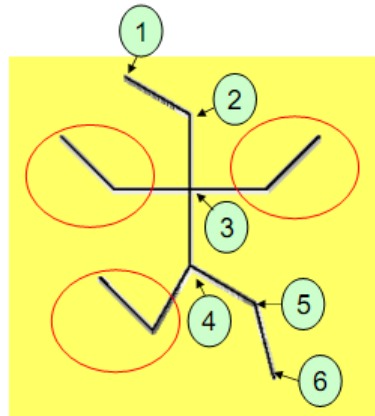


3-metil-4-propilheptan



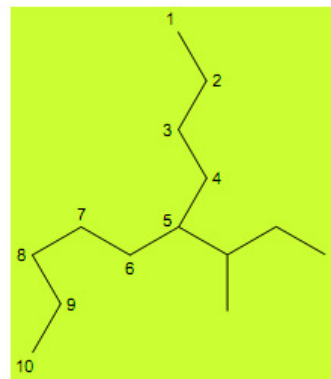
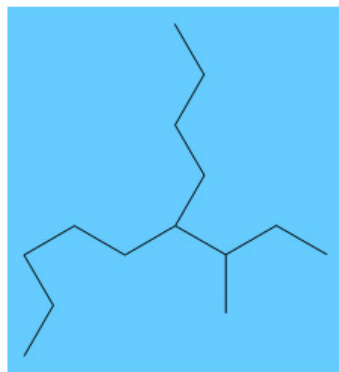
6-etil-2,3-dimetilnonan

Skraćene- skeletne- strukture acikličkih ugljikovodika:



3,3,4-triethylheksan

Skraćene- skeletne- strukture acikličkih ugljikovodika:



5-sec-butildekan ili
5-(1-metilpropil)dekan