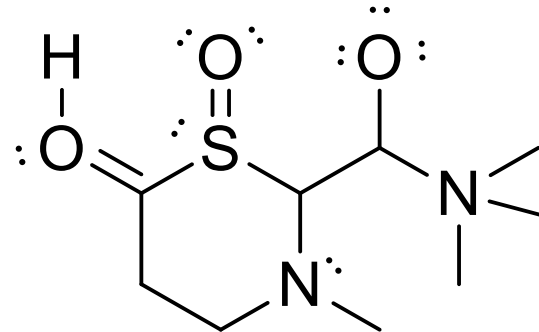
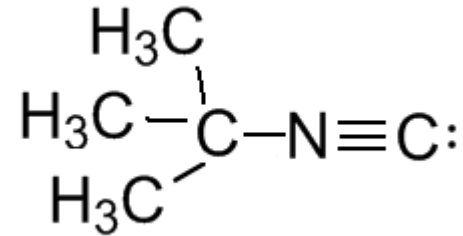
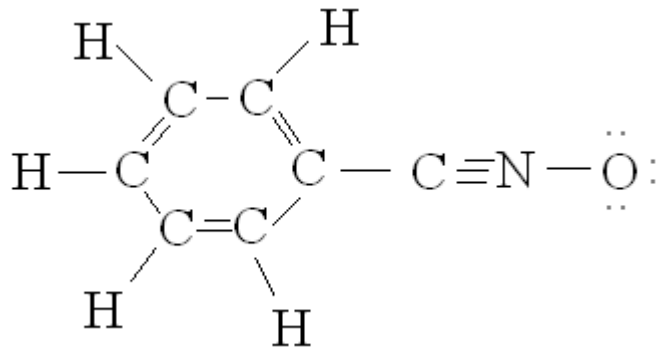
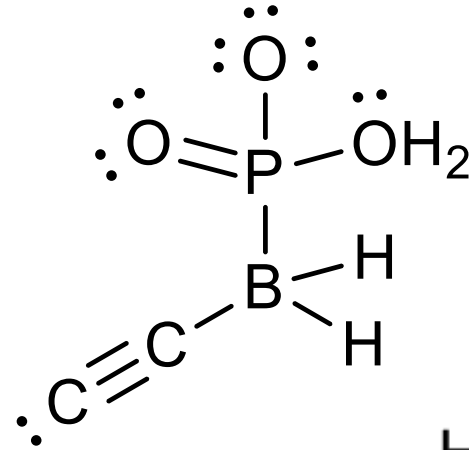
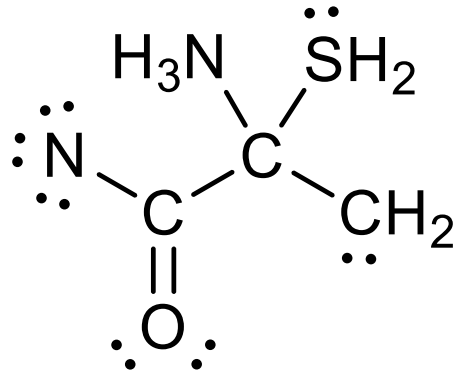
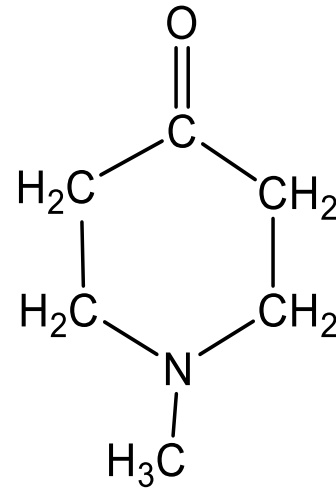
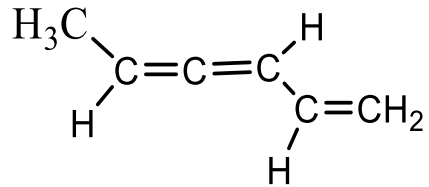
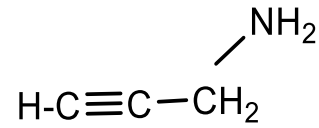
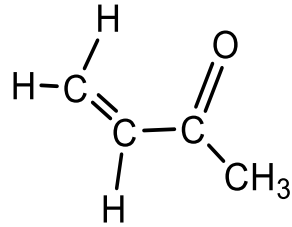
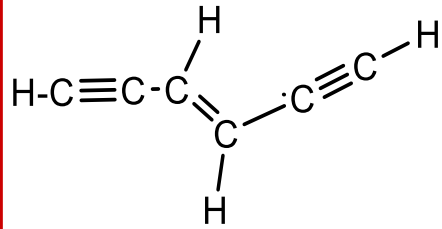


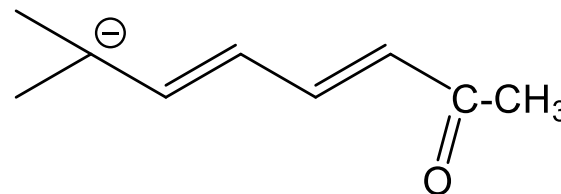
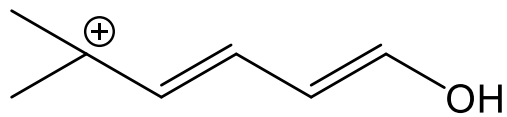
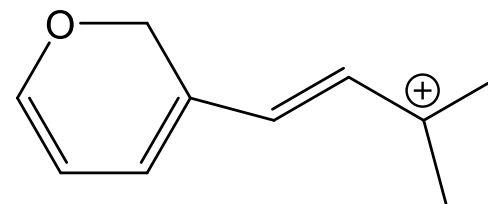
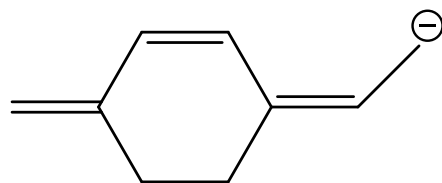
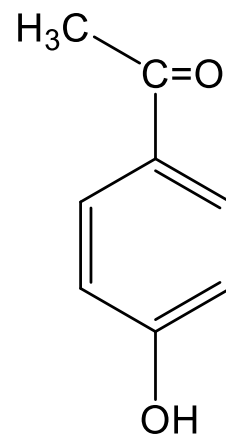
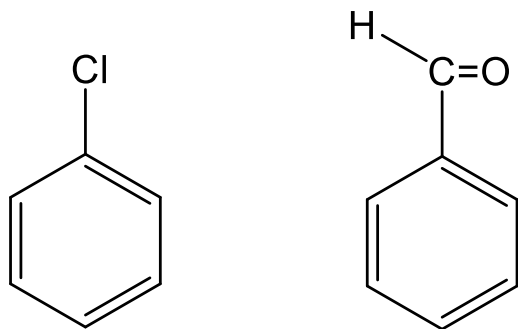
Υπολογίστε όλα τα τυπικά φορτία στις παρακάτω δομές.

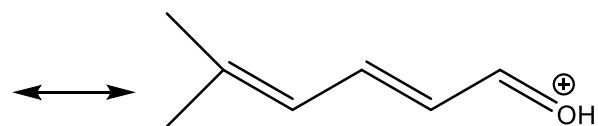
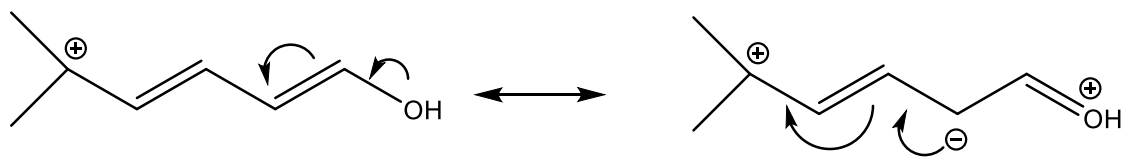
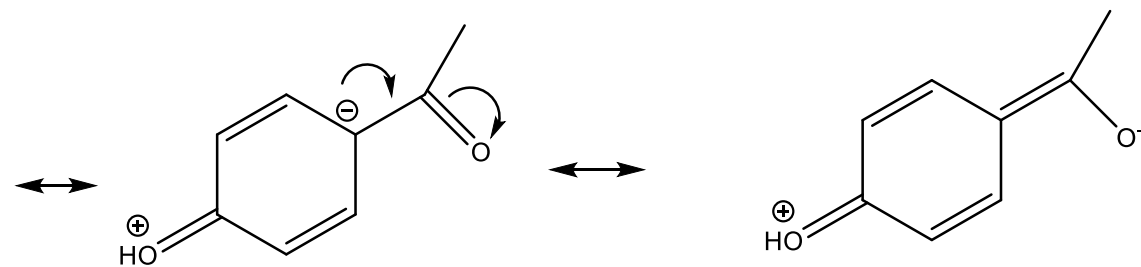
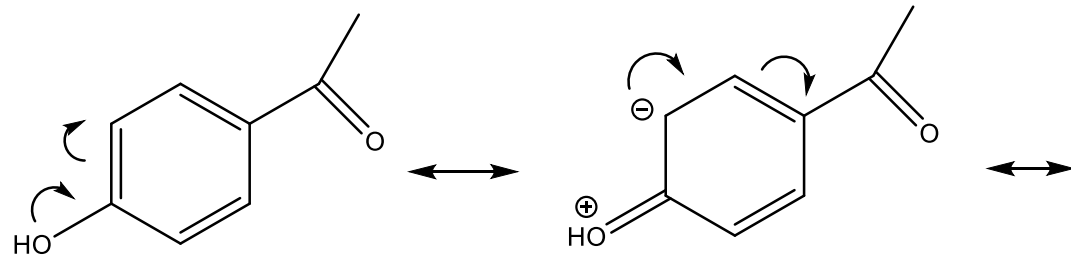


Ποιός ο υβριδισμός των ατόμων C και των ετεροατόμων και οι γωνίες των δεσμών των ενώσεων:

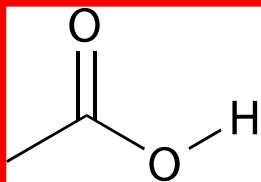


Σχεδιάστε τις δομές συντονισμού των παρακάτω ενώσεων:

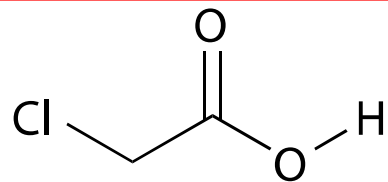




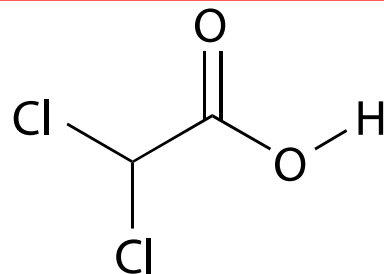
Εξηγείστε τις διαφορές στις τιμές pK_a των παρακάτω ενώσεων:



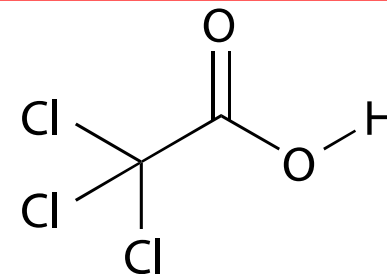
$pK_a = 4,75$



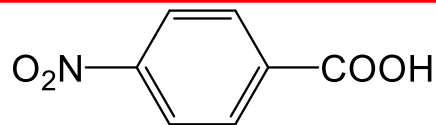
$pK_a = 2,87$



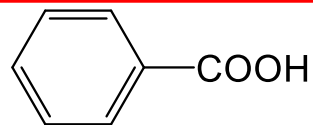
$pK_a = 1,25$



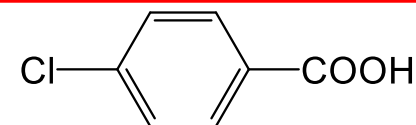
$pK_a = 0,70$



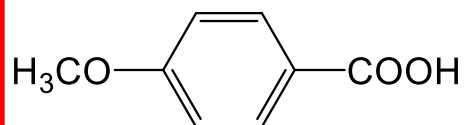
$pK_a: 3,43$



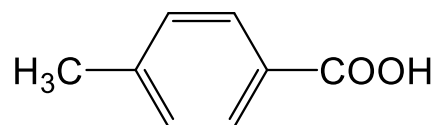
$pK_a: 4,21$



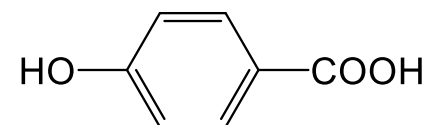
$pK_a: 4,00$



$pK_a: 4,25$

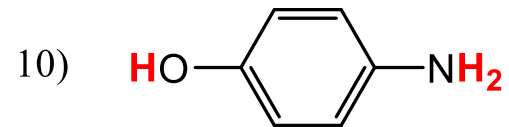
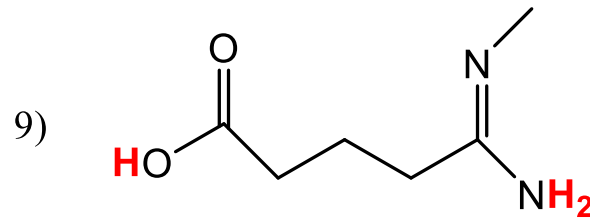
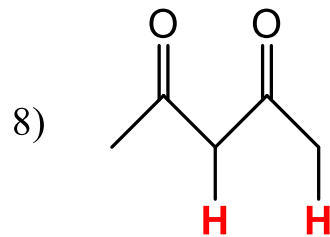
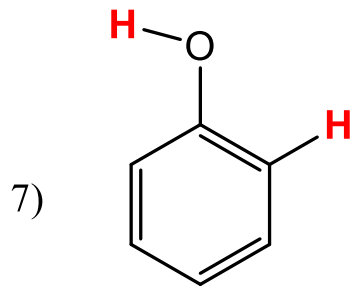
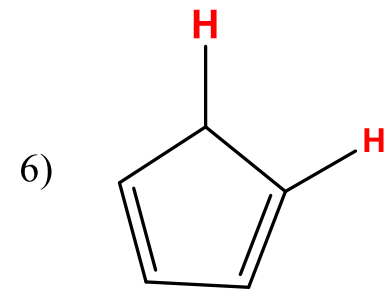
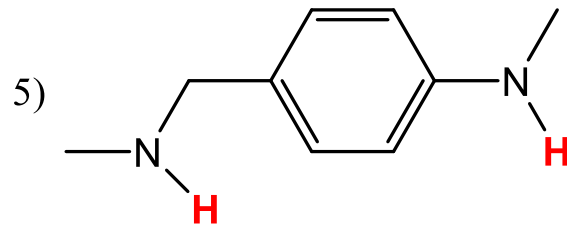
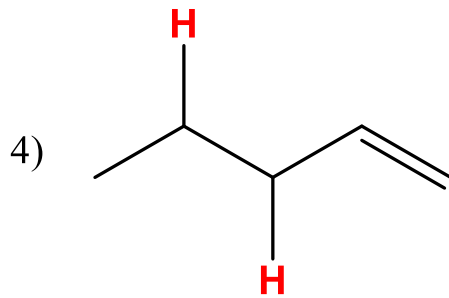
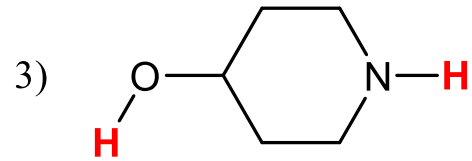
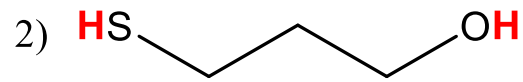
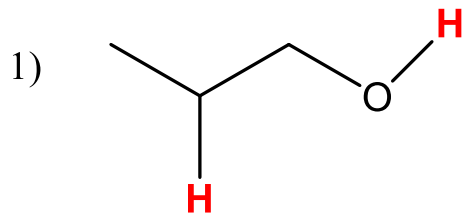


$pK_a: 4,38$

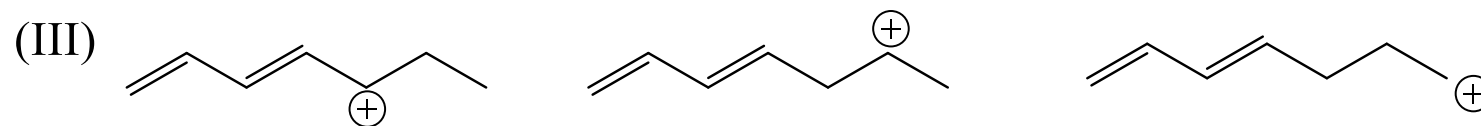
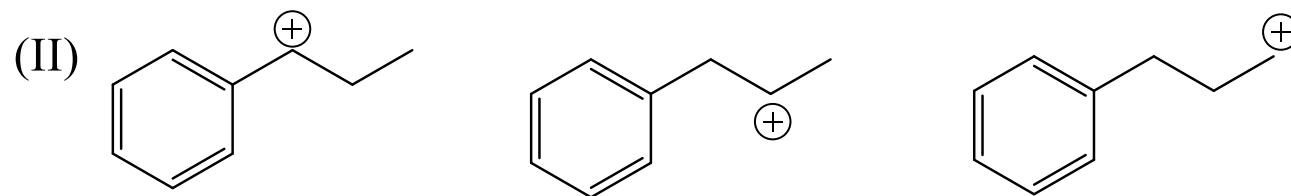
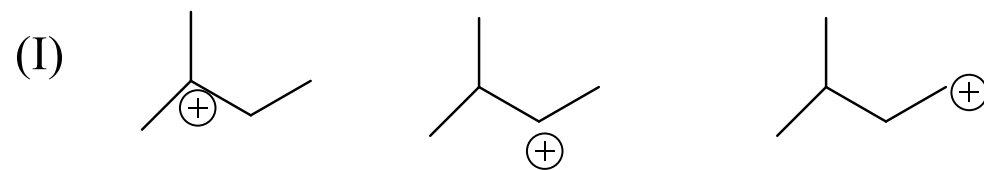


$pK_a: 4,55$

Ποιο από τα δύο πρωτόνια σε κάθε ένωση είναι πιο όξινο;

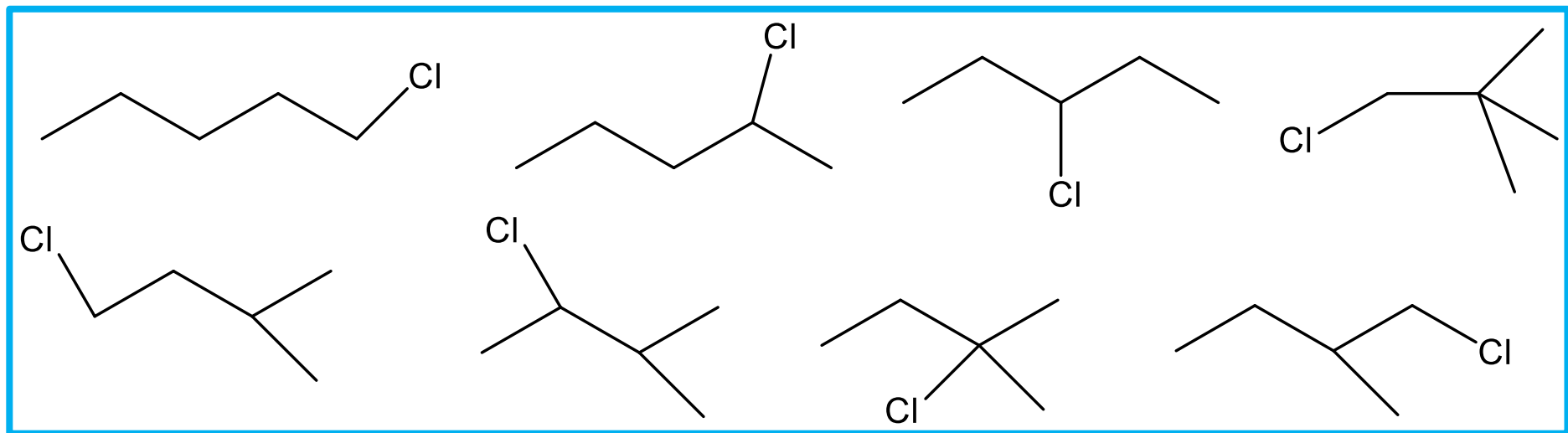
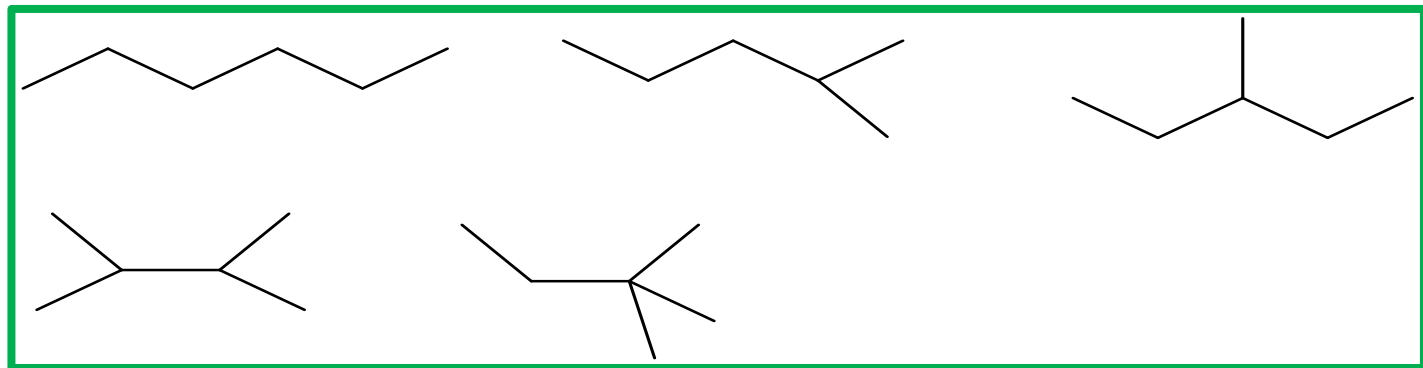
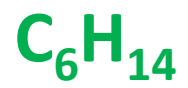
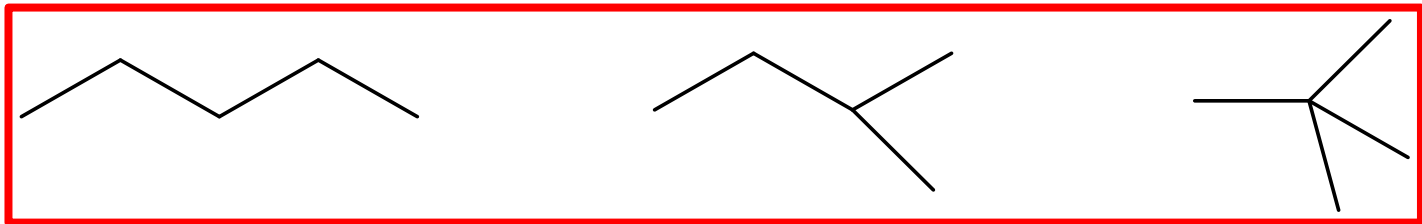
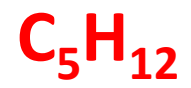


Να ταξινομηθούν τα καρβοκατιόντα κάθε ομάδας κατά σειρά αυξανόμενης σταθερότητας:

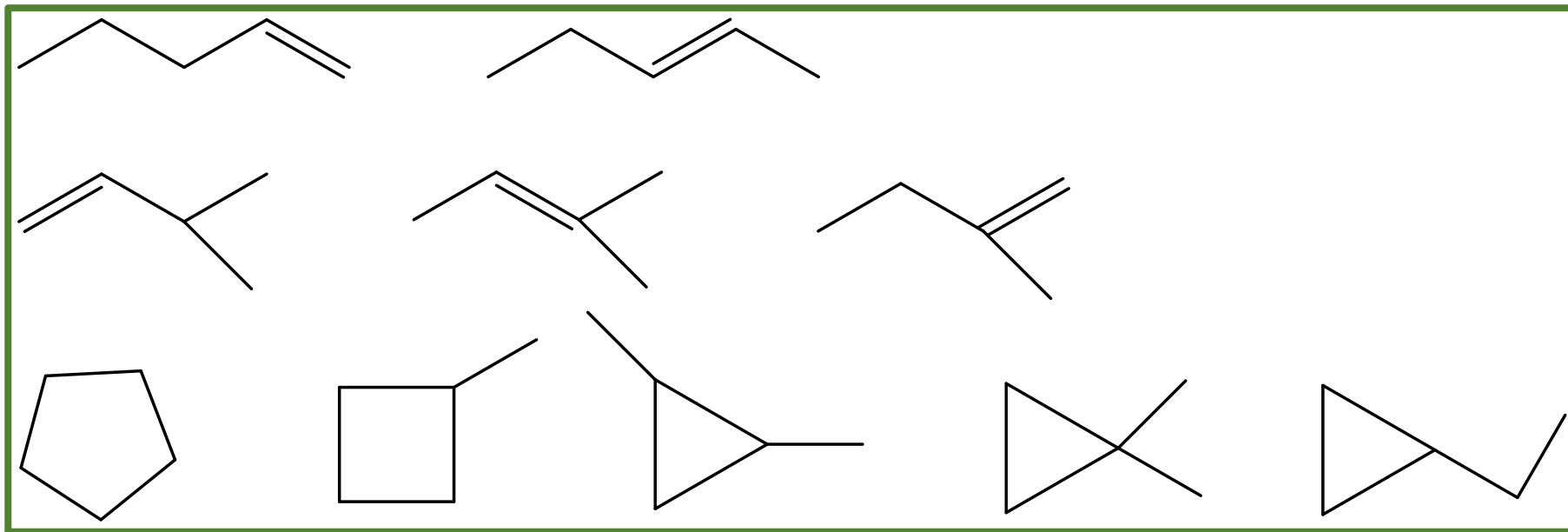


Να γραφούν τα συντακτικά ισομερή των ενώσεων με μοριακούς τύπους:

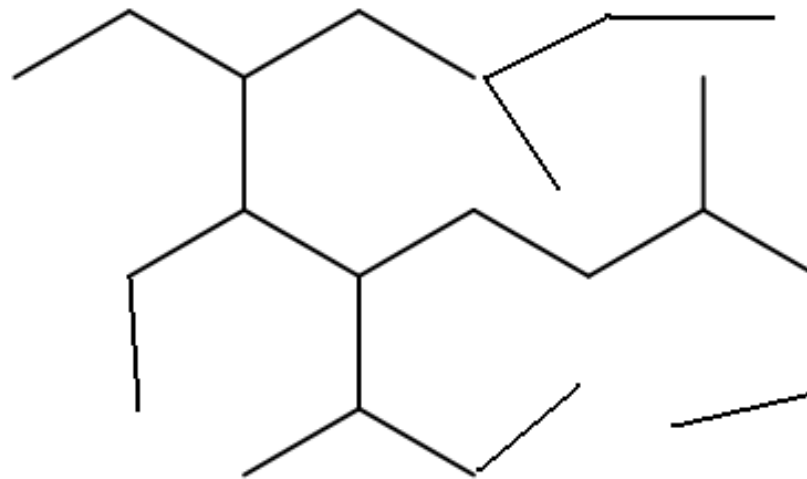
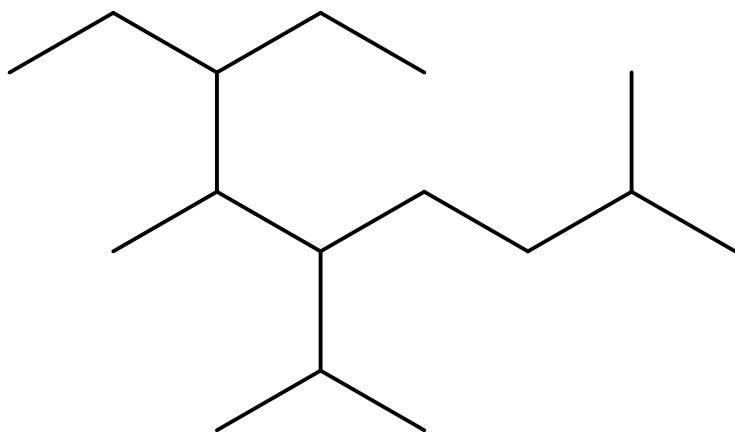
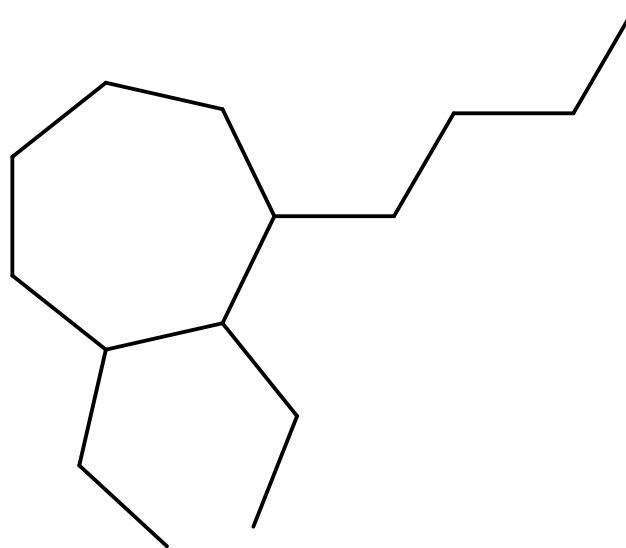
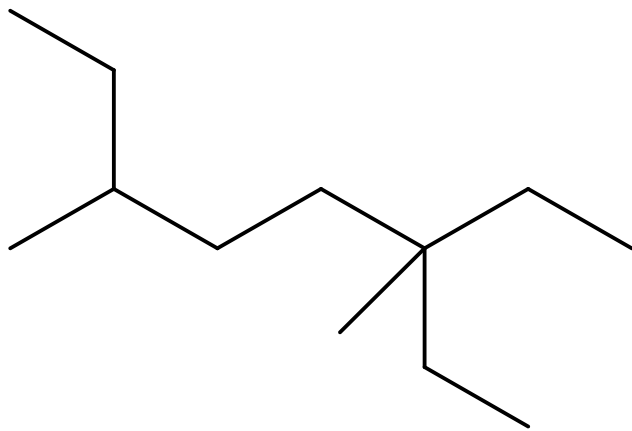




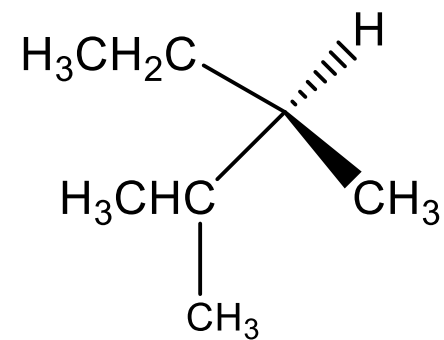
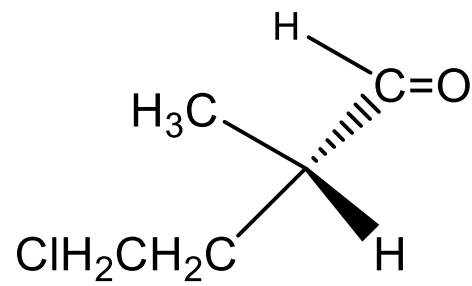
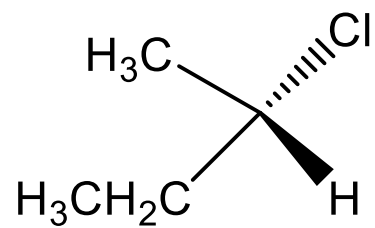
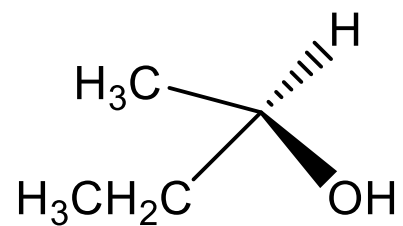
C_5H_{10}



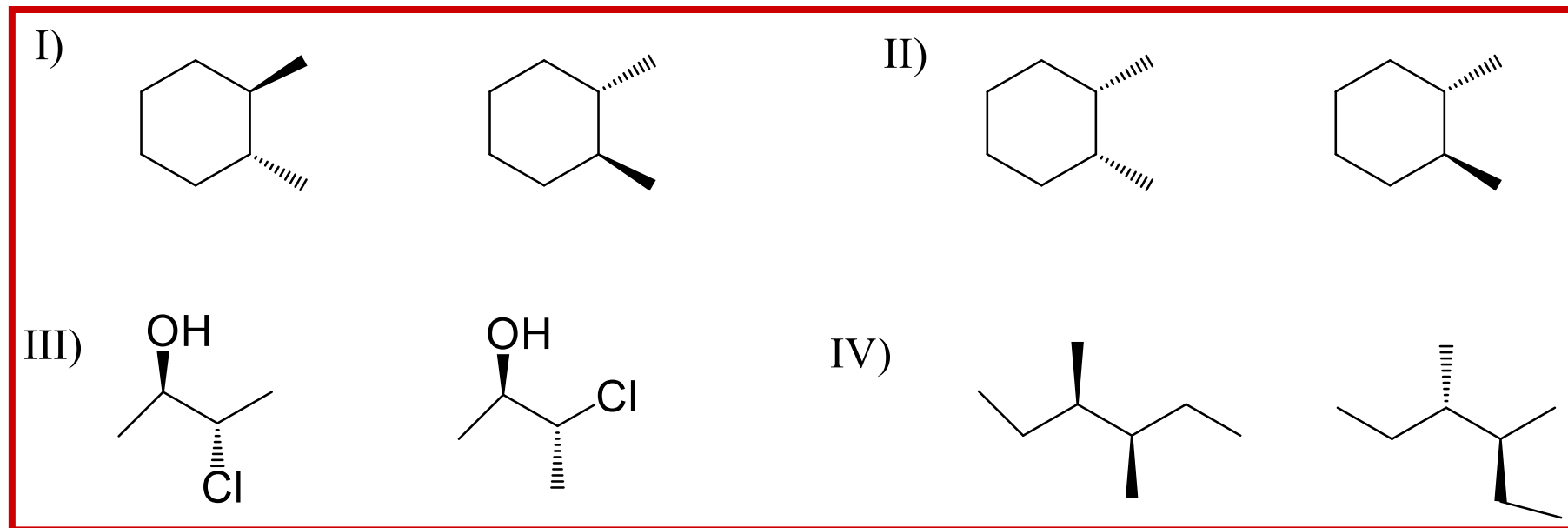
Να ονομασθεί ο μητρικός σκελετός των παρακάτω ενώσεων:



Ποια είναι η απεικόνιση των παρακάτω ενώσεων;



Προσδιορίστε αν το καθένα από τα παρακάτω ζεύγη αποτελείται από εναντιομερή ή διαστερομερή.



-Εάν καθαρό R εναντιομερές έχει ειδική στροφή $+30$ βαθμούς, ποια θα ήταν η στροφή όταν θα έχετε ένα μείγμα με αναλογία $R/S = 40/60$;

20% Εναντιομερής περίσσεια του S -.

$$\% ee = \frac{| \text{παρατηρούμενη } \alpha |}{| \alpha \text{ του καθαρού εναντιομερούς} |} \times 100\%$$

$[a] = 20\% \times 30 = 6$: Ειδική στροφή -6 βαθμοί.

-Ένα διάλυμα περιέχει ένα ζεύγος εναντιομερών A και B . Αν το διάλυμα αυτό περιέχει 85% από το A και 15% από το B , ποια είναι η $\% ee$ αυτού του διαλύματος;

Εναντιομερής περίσσεια του $A = 85-15\% = 70\%$.