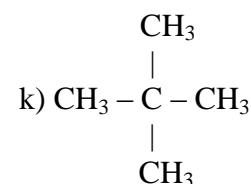
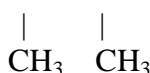
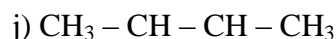
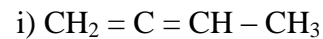
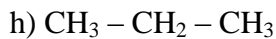
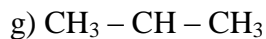
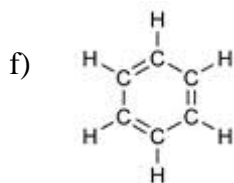
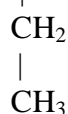
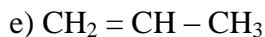
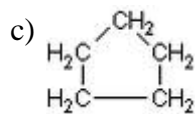
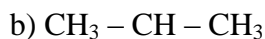
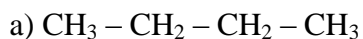
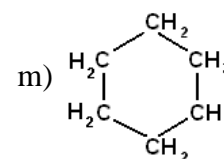
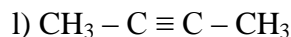
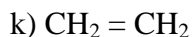
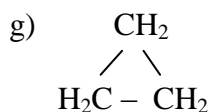
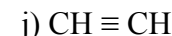
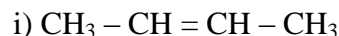
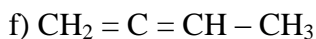
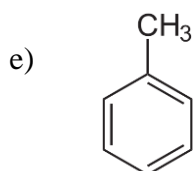
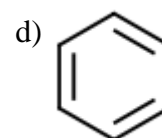
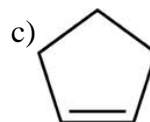
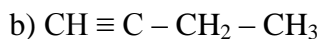
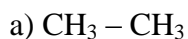


Pracovní list: Uhlíkové řetězce

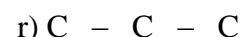
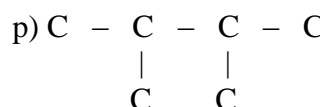
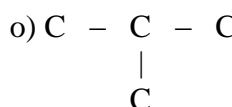
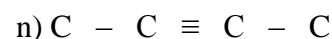
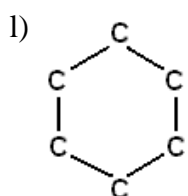
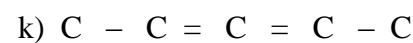
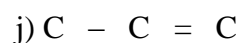
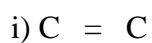
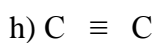
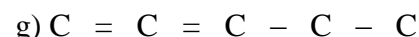
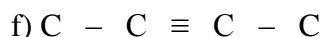
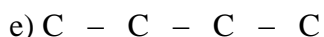
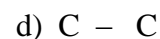
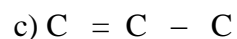
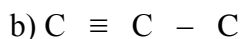
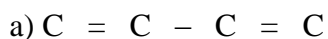
1. Pojmenuj typ řetězce:



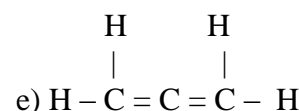
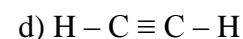
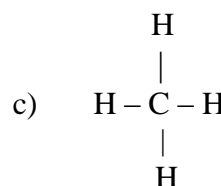
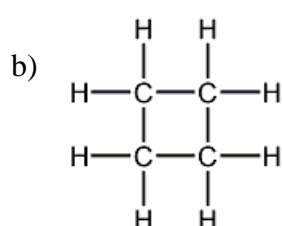
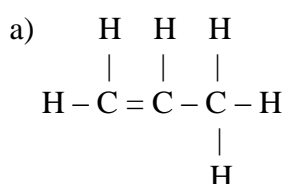
2. Napiš, zda jde o sloučeninu nasycenou, nenasycenou, aromatickou a pojmenuj typ řetězce:



3. Doplň vodíky:

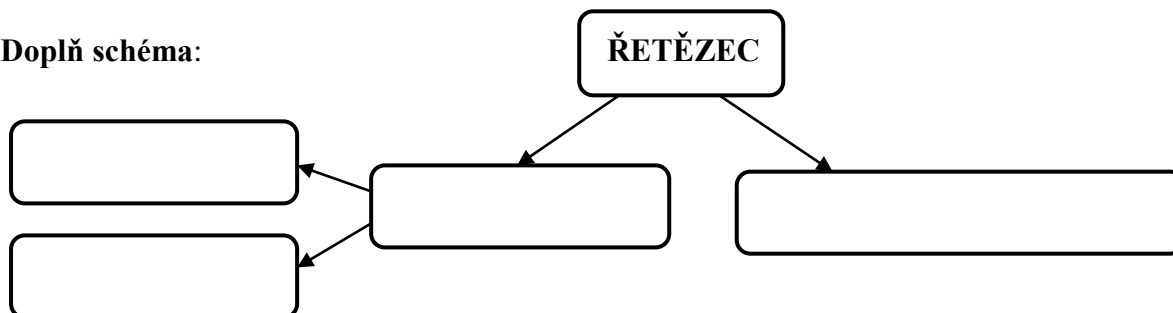


5. Přepiš strukturní vzorec do racionálního a sumárního:

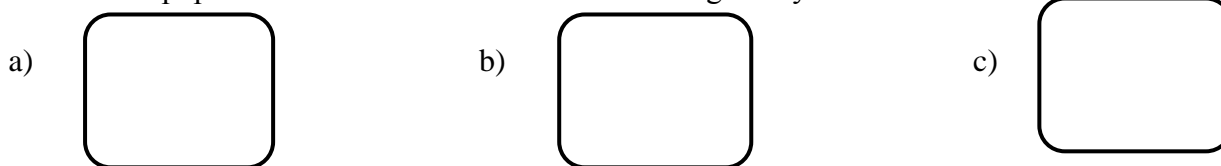


6. Uhlovodíky jsou sloučeniny _____ a _____
7. Má schopnost spojovat se do tzv. _____, pomocí _____
8. Organická chemie se zabývá _____

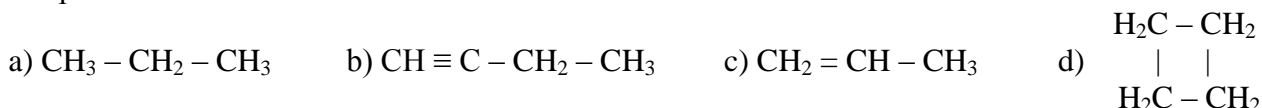
9. **Doplň schéma:**



10. Znázorni a popiš vazebné možnosti atomu uhlíku v organických sloučeninách:



11. Přepiš racionální vzorec do **strukturního a sumárního**:



12. Aromatické uhlovodíky mají:

- otevřený řetězec se šesti uhlíky, u kterých se střídají jednoduché a dvojné vazby
- uzavřený řetězec se šesti uhlíky, které jsou spojeny pouze jednoduchými vazbami
- otevřený řetězec se šesti uhlíky, které jsou spojeny pouze jednoduchými vazbami
- uzavřený řetězec se šesti uhlíky, u kterých se střídají jednoduché a dvojné vazby

13. Nenasycené uhlovodíky mají mezi uhlíky:

- pouze vazby jednoduché
- jednu dvojnou vazbu, dvě dvojně vazby nebo jednu trojnou vazbu a ostatní vazby jsou jednoduché
- všechny vazby dvojné

14. Nasycené uhlovodíky mají mezi uhlíky:

- všechny vazby jednoduché, ale pouze u otevřených řetězců
- jednu dvojnou vazbu, dvě dvojně vazby nebo jednu trojnou vazbu a ostatní vazby jsou jednoduché
- všechny vazby jednoduché a jednu vazbu dvojnou
- všechny vazby jednoduché bez ohledu na typ řetězce

15. **Doplň:**

- V organických sloučeninách je prvek vodík vždy: _____
- V organických sloučeninách je prvek uhlík vždy: _____
- V organických sloučeninách je prvek kyslík vždy: _____
- V organických sloučeninách jsou halogeny vždy: _____

16. Označ stejnou barvou české názvy, mezinárodní názvy a značky čtyř základních prvků organických sloučenin:

draslík	hydrogenium	O	C	calcium	N
kyslík	vápník	K	nitrogenium	vodík	carboneum
dusík	H	Ca	kallium	uhlík	oxygenium