

1. Calculate the degree of unsaturation for the following formulas.

- a) C_5H_{10}
- b) C_6H_{10}
- c) $\text{C}_7\text{H}_{14}\text{O}$
- d) $\text{C}_5\text{H}_7\text{NO}_2$

2. Draw all the possible constitutional isomers for the following molecular formulas.

- a) CH_4
- b) C_2H_6
- c) C_3H_8
- d) C_4H_{10}
- e) C_4H_8
- f) C_5H_{12}
- g) $\text{C}_4\text{H}_9\text{Cl}$