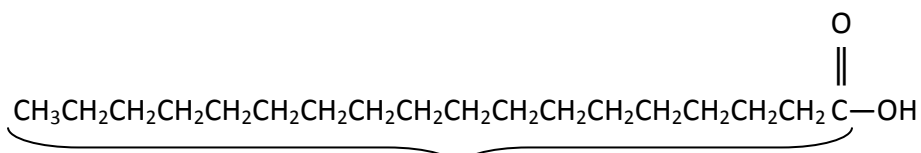


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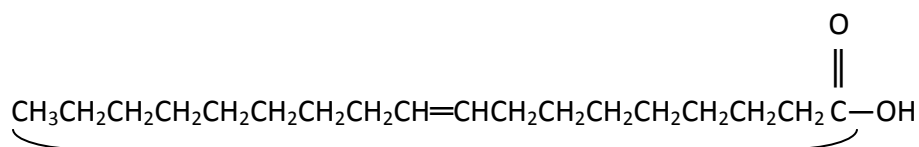
1) Draw the condensed structural formula of any **saturated fatty acid**.



Carbon chain should contain 12 or more carbons **and** should have **all single bonds**.

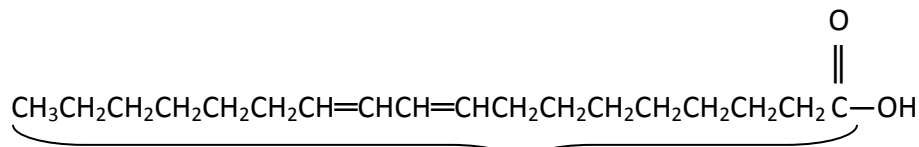
2)

a) Draw the condensed structural formula of any **monounsaturated fatty acid**.



Carbon chain should contain 12 or more carbons **and** should have **only one double bond**.

b) Draw the condensed structural formula of any **polyunsaturated fatty acid**.



Carbon chain should contain 12 or more carbons **and** should have **at least two double bonds**.

3) Compare and contrast “fat” (triglycerides) and fatty acids.

Fatty acids are long-chain *carboxylic acid* molecules, typically 12-20 carbons in length.

Triglycerides contain three fatty acid residues bonded to a glycerol backbone. Triglycerides can be formed by the esterification of three fatty acid molecules and one glycerol molecule.

