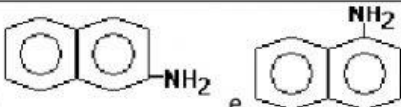
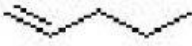
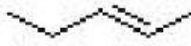
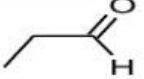
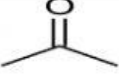
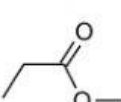
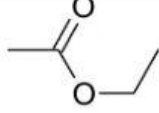
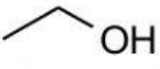
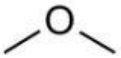
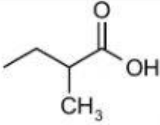
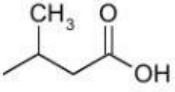
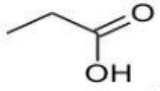
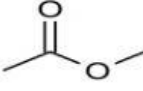


|                            |            |
|----------------------------|------------|
| Escola/Colégio:            |            |
| Disciplina: <b>QUÍMICA</b> | Ano/Série: |
| Estudante:                 |            |

## Aula 46 – Isomeria plana ou constitucional isomeria de cadeia e de posição.

\* Identifique o tipo de isomeria plana colocando: (f) função, (c) cadeia, (p) posição, (m) metameria ou compensação) nos compostos a seguir:

|    |                                                                                                                                                                                                                                                                                                                                  |
|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| a) | $\begin{array}{c} \text{CH}_3-\text{CH}_2-\text{CH}_2-\text{CH}_2-\text{NH}_2 \\ \text{CH}_3-\text{CH}-\text{CH}_2-\text{CH}_3 \\   \\ \text{NH}_2 \end{array} \quad \text{e} \quad \boxed{\phantom{\text{CH}_3-\text{CH}_2-\text{CH}_2-\text{CH}_2-\text{NH}_2}}$                                                               |
| b) | $\begin{array}{c} \text{CH}_3 \\   \\ \text{CH}_3-\text{C}-\text{CH}-\text{CH}_2-\text{CH}_3 \\   \quad   \\ \text{CH}_3 \text{ CH}_3 \end{array} \quad \text{e} \quad \begin{array}{c} \text{CH}_3 \\   \\ \text{CH}_3-\text{C}-\text{CH}_2-\text{CH}_2-\text{CH}_2-\text{CH}_3 \\   \\ \text{CH}_3 \end{array} \quad \text{m}$ |
| c) |                                                                                                                                                                                                                                                 |
| d) | $\text{CH}_3-\text{NH}-\text{CH}_2-\text{CH}_2-\text{CH}_3 \quad \text{e} \quad \text{CH}_3-\text{CH}_2-\text{NH}-\text{CH}_2-\text{CH}_3$                                                                                                                                                                                       |
| e) | $\begin{array}{c} \text{CH}_3-\text{CH}-\text{CH}_2-\text{NH}_2 \\   \\ \text{CH}_3 \end{array} \quad \text{e} \quad \text{CH}_3-\text{CH}_2-\text{CH}_2-\text{CH}_2-\text{NH}_2$                                                                                                                                                |
| f) | $\begin{array}{c} \text{CH}_3 \\   \\ \text{CH}_3-\text{C}-\text{CH}-\text{CH}_2-\text{CH}_3 \\   \quad   \\ \text{CH}_3 \text{ CH}_3 \end{array} \quad \text{e} \quad \begin{array}{c} \text{CH}_3 \\   \\ \text{CH}_3-\text{C}-\text{CH}_2-\text{CH}-\text{CH}_3 \\   \quad   \\ \text{CH}_3 \text{ CH}_3 \end{array}$         |
| g) |                                                                                                                                                                                                                                               |
| h) |                                                                                                                                                                                                                                              |
| i) |                                                                                                                                                                                                                                               |
| j) | $\text{H}_3\text{C}-\text{O}-\text{CH}_3 \quad \text{e} \quad \text{H}_3\text{C}-\text{CH}_2-\text{OH}$                                                                                                                                                                                                                          |
| l) | $\text{H}_2\text{C}=\text{CH}-\text{CH}_3 \quad \text{e} \quad \begin{array}{c} \text{CH}_2 \\   \quad   \\ \text{H}_2\text{C}-\text{CH}_2 \end{array}$                                                                                                                                                                          |
| m) | $\begin{array}{c} \text{H}_2\text{C}-\text{CH}_2-\text{CH}_3 \\   \\ \text{OH} \end{array} \quad \text{e} \quad \begin{array}{c} \text{H}_3\text{C}-\text{CH}-\text{CH}_3 \\   \\ \text{OH} \end{array}$                                                                                                                         |
| n) |                                                                                                                                                                                                                                               |
| o) |                                                                                                                                                                                                                                              |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>p)</p> <div style="display: flex; align-items: center;"> <div style="text-align: center;"> <math>\text{H}_3\text{C}-\text{CH}_2-\text{CH}_2-\overset{\text{O}}{\parallel}\text{C}-\text{OH}</math><br/>I         </div> <div style="text-align: center; margin-left: 20px;"> <math>\text{H}_3\text{C}-\text{CH}_2-\overset{\text{O}}{\parallel}\text{C}-\text{O}-\text{CH}_3</math><br/>II         </div> <div style="margin-left: 20px;"> <input style="width: 80px; height: 30px;" type="text"/> </div> </div> | <p>q)</p> <div style="display: flex; align-items: center;"> <div style="text-align: center; margin-right: 20px;">  </div> <div style="text-align: center; margin-right: 20px;">  </div> <div> <input style="width: 80px; height: 30px;" type="text"/> </div> </div>                                                                       |
| <p>r)</p> <div style="display: flex; align-items: center;"> <div style="text-align: center; margin-right: 20px;"> <br/>propanal         </div> <div style="text-align: center; margin-right: 20px;"> <br/>e propanona         </div> <div> <input style="width: 80px; height: 30px;" type="text"/> </div> </div>                                  | <p>s)</p> <div style="display: flex; align-items: center;"> <div style="text-align: center; margin-right: 20px;"> <br/>propanoato de metila         </div> <div style="text-align: center; margin-right: 20px;"> <br/>e etanoato de etila         </div> <div> <input style="width: 80px; height: 30px;" type="text"/> </div> </div>       |
| <p>t)</p> <div style="display: flex; align-items: center;"> <div style="text-align: center; margin-right: 20px;"> <br/>etanol         </div> <div style="text-align: center; margin-right: 20px;"> <br/>e metóxi-metano         </div> <div> <input style="width: 80px; height: 30px;" type="text"/> </div> </div>                                | <p>u)</p> <div style="display: flex; align-items: center;"> <div style="text-align: center; margin-right: 20px;"> <br/>ác. 2-metil-butanóico         </div> <div style="text-align: center; margin-right: 20px;"> <br/>e ác. 3-metil-butanóico         </div> <div> <input style="width: 80px; height: 30px;" type="text"/> </div> </div> |
| <p>v)</p> <div style="display: flex; align-items: center;"> <div style="text-align: center; margin-right: 20px;"> <br/>n-butano         </div> <div style="text-align: center; margin-right: 20px;"> <br/>e metil-propano         </div> <div> <input style="width: 80px; height: 30px;" type="text"/> </div> </div>                              | <p>x)</p> <div style="display: flex; align-items: center;"> <div style="text-align: center; margin-right: 20px;"> <br/>ác. propanóico         </div> <div style="text-align: center; margin-right: 20px;"> <br/>e etanoato de metila         </div> <div> <input style="width: 80px; height: 30px;" type="text"/> </div> </div>           |
| <p>z)</p> <div style="display: flex; align-items: center;"> <div style="text-align: center; margin-right: 20px;"> <math>\text{H}_3\text{C}-\overset{\text{O}}{\parallel}\text{C}-\text{CH}_3</math> </div> <div style="text-align: center; margin-right: 20px;"> <math>\text{H}_3\text{C}-\text{CH}_2-\overset{\text{O}}{\parallel}\text{C}-\text{H}</math> </div> <div> <input style="width: 80px; height: 30px;" type="text"/> </div> </div>                                                                      | <p>z1)</p> <div style="display: flex; align-items: center;"> <div style="text-align: center; margin-right: 20px;"> <math>\text{H}_3\text{C}-\overset{\text{O}}{\parallel}\text{C}-\text{O}-\text{CH}_3</math> </div> <div style="text-align: center; margin-right: 20px;"> <math>\text{H}_3\text{C}-\text{CH}_2-\overset{\text{O}}{\parallel}\text{C}-\text{OH}</math> </div> <div> <input style="width: 80px; height: 30px;" type="text"/> </div> </div>                                                      |

