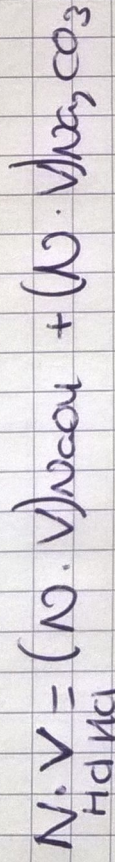
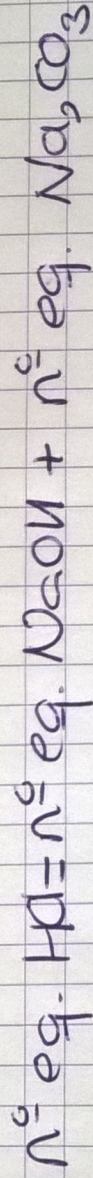
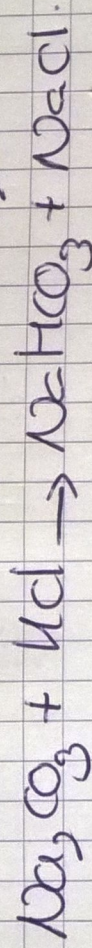
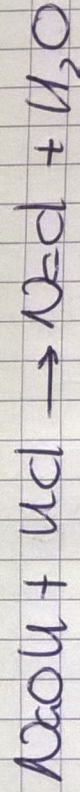


Ejercicio XI-

$x = \text{gramos NaOH}$; $y = \text{gramos}$

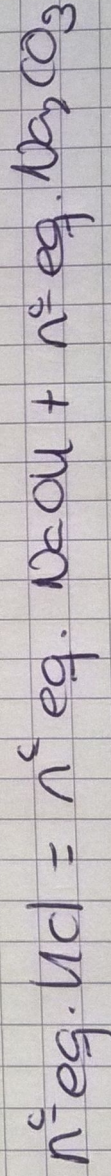
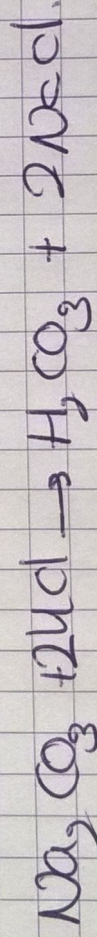
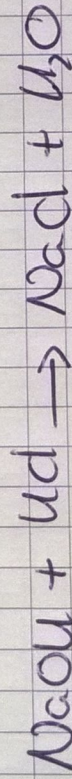
• Valoración con fenantreno (básico) Na_2CO_3 .



$$0,0972 \cdot 0,02513 = \frac{x}{40} \cdot 0,025 + \frac{y}{106} \cdot 0,025$$

$$0,007704 = \frac{x}{40} + \frac{y}{106} \rightarrow \text{Ec. 1.}$$

• Valoración con naranja (ácido)



$$0,0972 \cdot 0,03510 = \frac{x}{40} + \frac{y}{2 \cdot 106}$$

$$0,1364688 = \frac{x}{40} + \frac{2y}{106} \rightarrow \text{Ec. 2.}$$

$$x = 2,36 \text{ g/L NaOH}$$

Resolvemos sistema de ec's: $\begin{cases} x = 2,36 \text{ g/L NaOH} \\ y = 4,108 \text{ g/L Na}_2\text{CO}_3 \end{cases}$