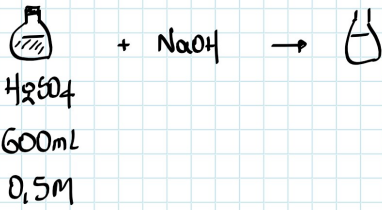
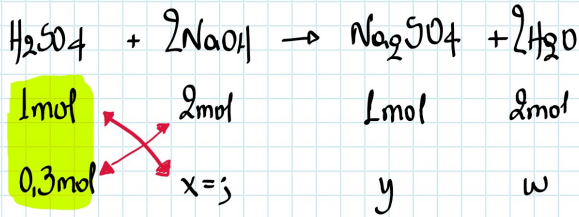


Aufgaben 4.57.



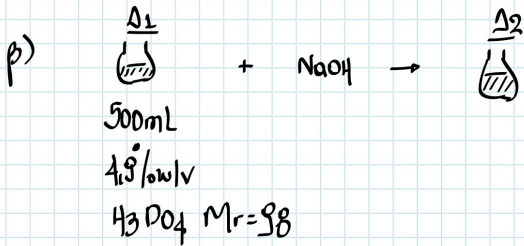
$$n_1 = C_1 \cdot V_1 = 0,5 \cdot 0,6 = 0,3 \text{ mol } H_2SO_4$$



$$\frac{1}{0,3} = \frac{2}{x} = \frac{1}{y} = \frac{2}{w}$$

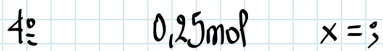
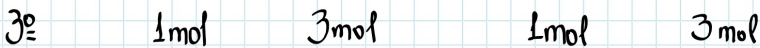
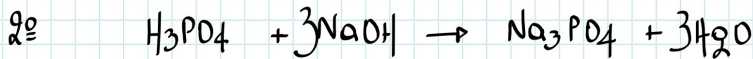
$$1 \cdot x = 2 \cdot 0,3 \Rightarrow \boxed{x = 0,6} \text{ NaOH} \Rightarrow m_{NaOH} = n_{NaOH} \cdot M_r = 0,6 \cdot 40 \Rightarrow$$

$$\Rightarrow m_{NaOH} = 24 \text{ g}$$



$HNO_3$

$$1^{\circ} \Delta_1: C = \frac{4,9}{98 \cdot 0,1} = 0,5 \text{ M} \quad n_{H_3PO_4} = 0,5 \cdot 0,5 = 0,25 \text{ mol}$$



$$5^{\circ} 1 \cdot x = 3 \cdot 0,25 \Rightarrow \boxed{x = 0,75} \text{ NaOH} \Rightarrow m_{NaOH} = 0,75 \cdot 40 = 30 \text{ g}$$