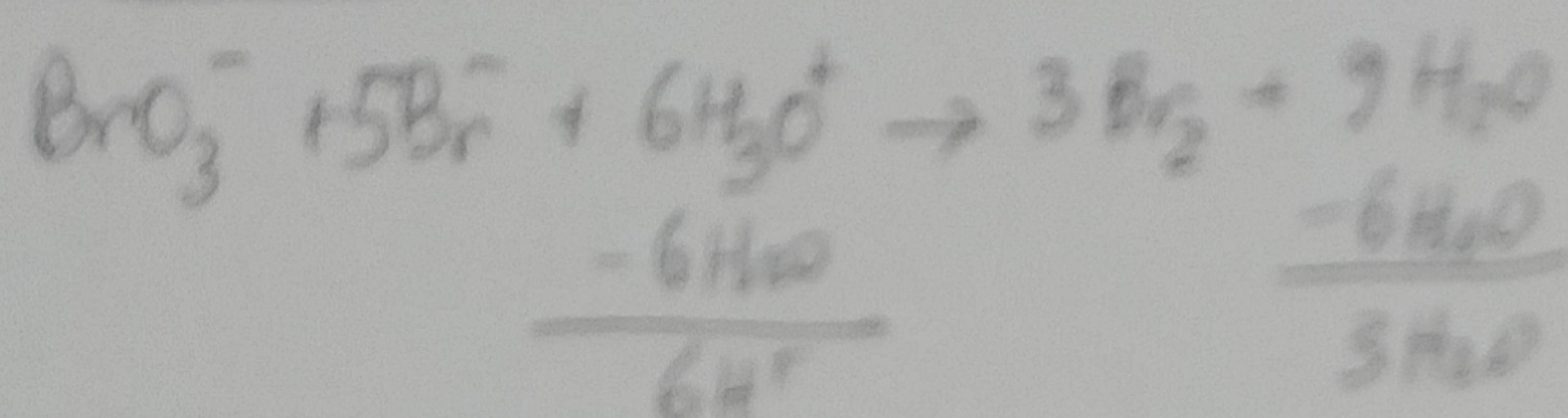
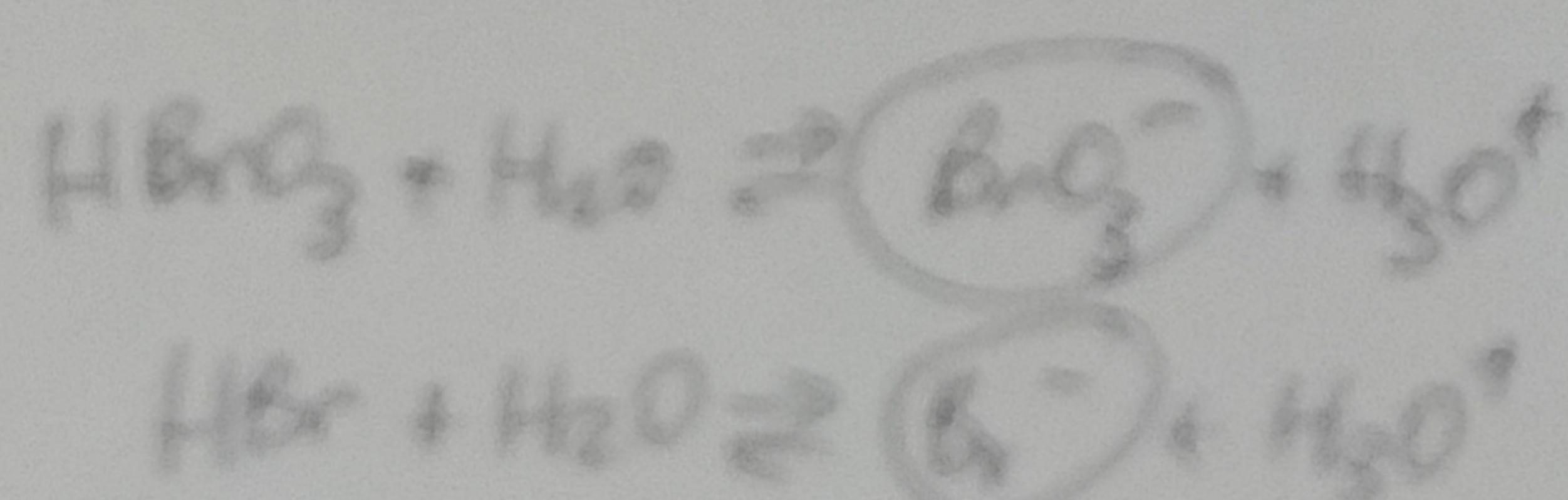
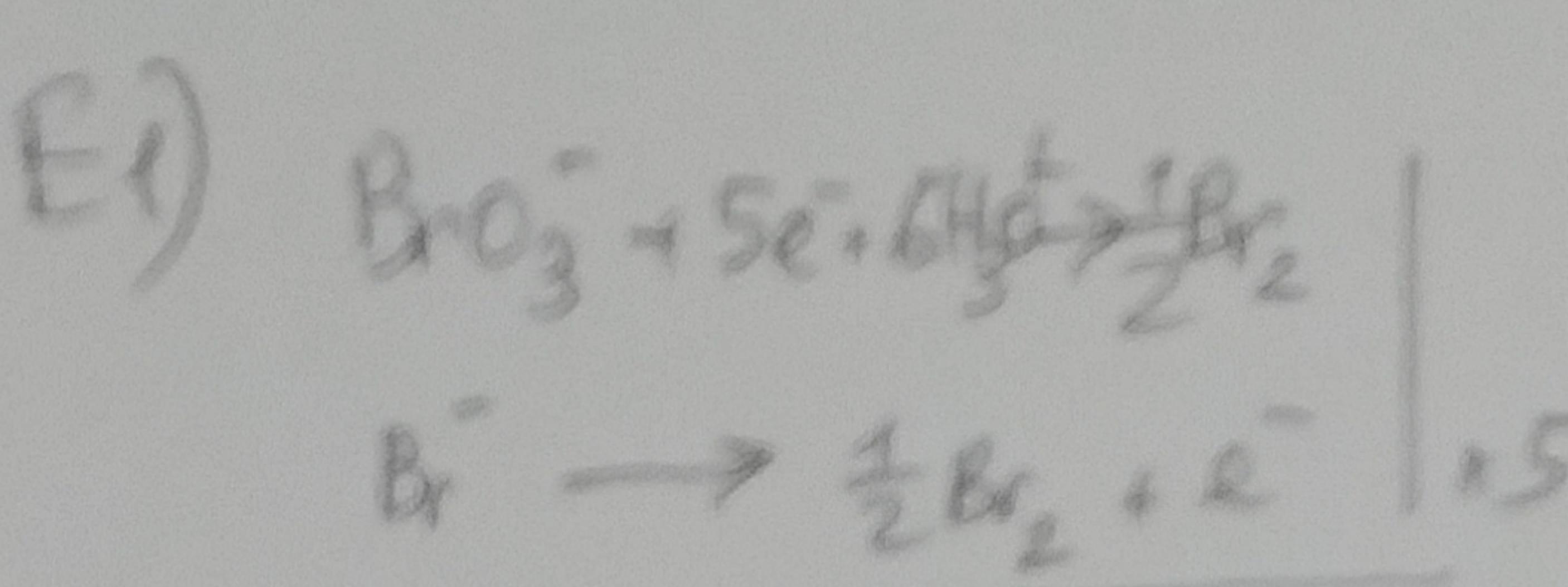


Soluzioni degli esercizi della Prova Scritta di Chimica BAER
 A.A. 2024-25 7/9/2025 COMPITO B

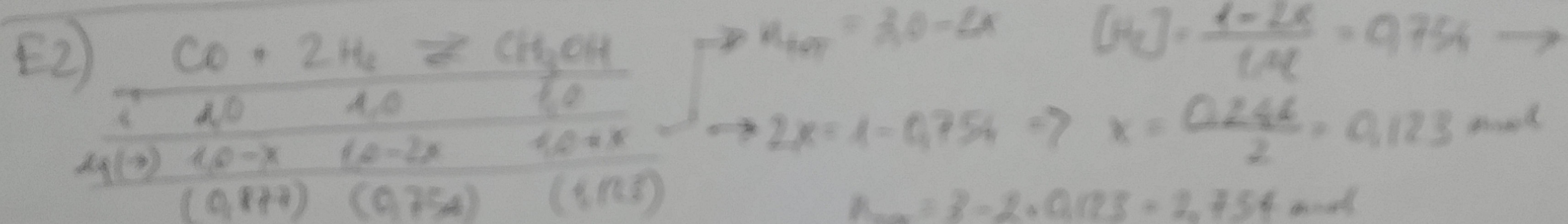


$$n_{\text{HBrO}_3} = \frac{3,225 \text{ g}}{128,912 \text{ g/mol}} = 0,0250 \text{ mol}$$

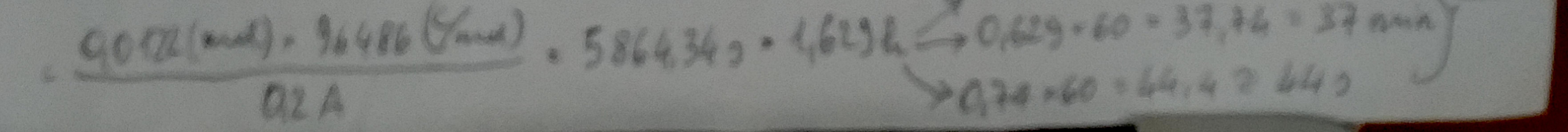
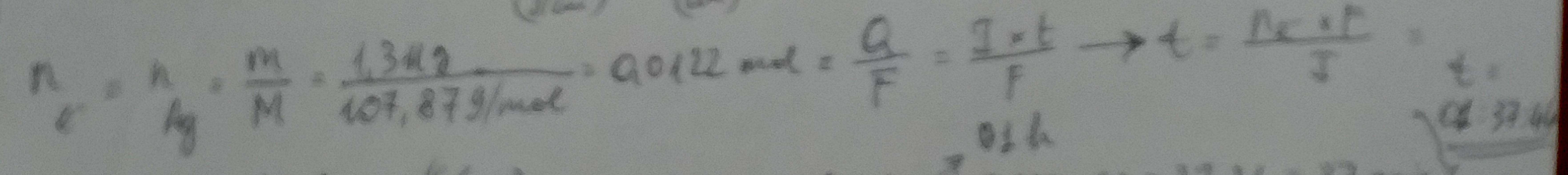
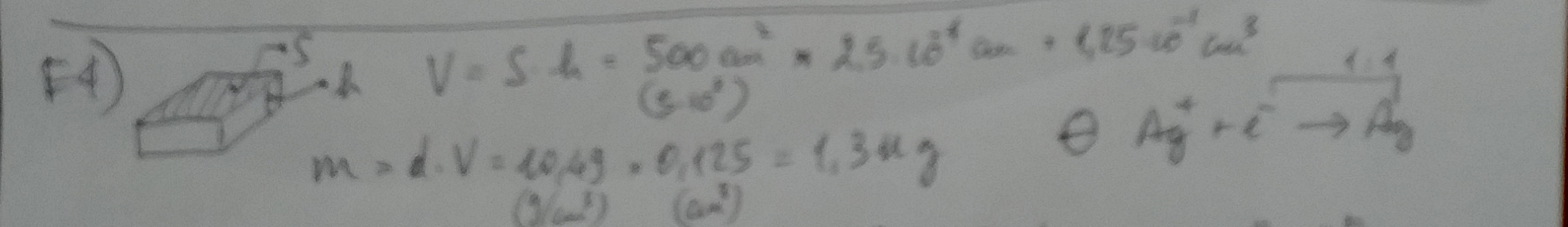
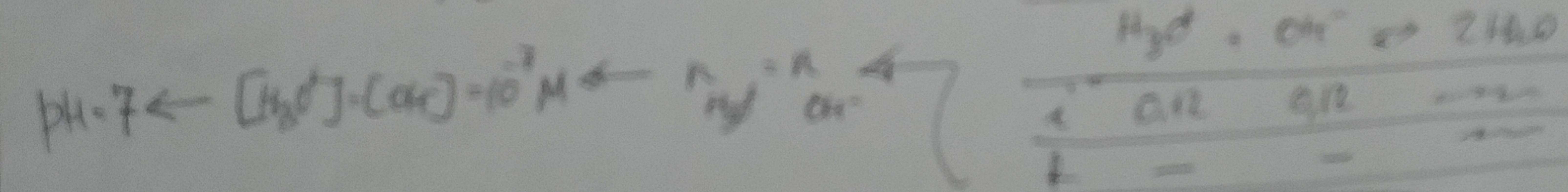
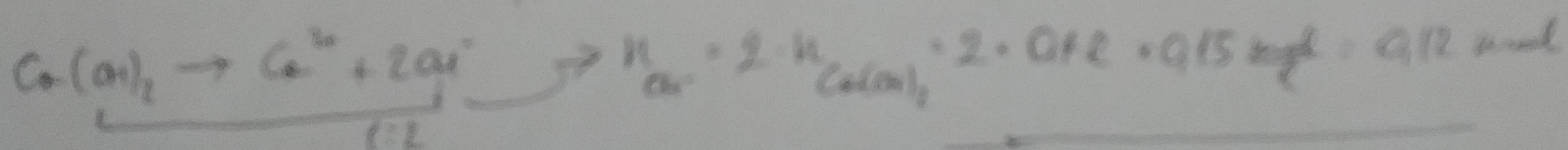
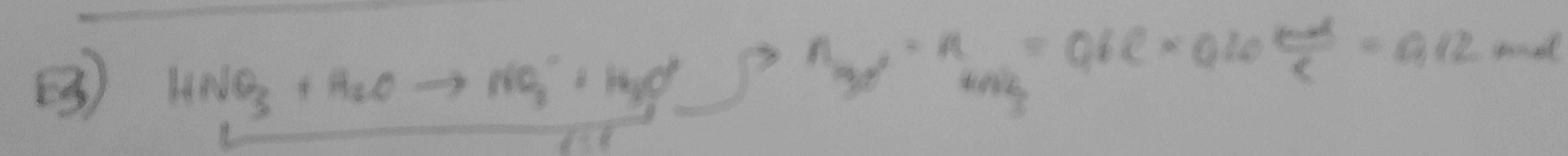
$$n_{\text{HBr}} = \frac{0,0250}{5} = 0,005 \text{ mol} ; n_{\text{H}_2\text{O}} = \frac{0,105}{5} = 0,021 \text{ mol}$$

mol. limite

$$n_{\text{H}_2\text{O}} = \frac{3}{5} n_{\text{HBr}} = \frac{3}{5} \cdot 0,021 \text{ mol} = 0,0123 \text{ mol} ; m_{\text{H}_2\text{O}} = \frac{n \cdot M}{6 \cdot 60 \text{ g/mol}} = \frac{0,0123 \cdot 18,02}{6 \cdot 60} = 0,00367 \text{ g}$$



$$x_C = \frac{0,877}{2,754} = 0,3124 ; x_{\text{H}_2} = \frac{0,754}{2,754} = 0,2738 ; x_{\text{CO}} = \frac{1,02}{2,754} = 0,4038$$



$$\rightarrow 0,74 \cdot 60 = 44,4 \approx 44,5$$