

DATI

20,0 ml di  $\text{NH}_3$

19,2 ml di  $\text{HCl}$ , [1,00]

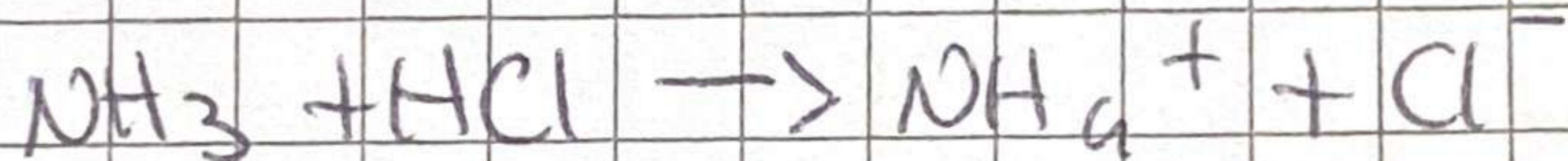
$[\text{NH}_3] = ?$  e pH al punto equivalente = ?

SOLGIMENTO

$$[\text{NH}_3] = \frac{M \cdot V}{V} = \frac{1,00 \cdot 0,0152 \text{ l}}{0,0200 \text{ l}} = 0,76 \text{ mol/l}$$

$$V_{\text{tot}} = 0,0352 \text{ l}$$

$$\text{mole di HCl} = 1,00 \text{ mol/l} \cdot 0,0152 \text{ l} = 0,0152 \text{ mol}$$



$$[\text{NH}_4\text{Cl}] = \frac{0,0152 \text{ mol}}{0,0352 \text{ l}} = 0,432 \text{ mol/l}$$