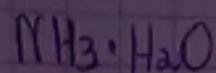


$$m_s = 0,4 \cdot 26,225g = 10,49g$$

Do prądu dworke amoni
kolejny dodac do 100cm^3
 $0,05$ mowego roztworu amoniaku,
aby pH zmialo o 2 ?

Zadanie 3.



$$V = 100 \text{ cm}^3$$

$$C_m = 0,05 \text{ mol/dm}^3$$

$$pK_b = 4,8 \quad pK_a = 14 - 4,8 = 9,2$$

$$pOH = \frac{1}{2} pK_b - \frac{1}{2} \log C$$

$$pOH = 2,4 - \frac{1}{2} \log(0,05)$$

$$pOH = 2,4 + 0,65$$

$$pOH = 3,05 = 3 \quad (1) \quad pH = 14 - 3,05 = 10,95$$

$$(2) \quad pH = 10,95 - 2 = 8,95$$

$$8,95 = \frac{1}{2}(9,2) - \frac{1}{2} \log C$$

$$8,95 = 4,6 - \frac{1}{2} \log C$$

$$4,35 = -\frac{1}{2} \log C$$

$$-2,175 = \log C$$

$$C = 10^{-2,175} = 0,0068 \text{ mol/dm}^3$$