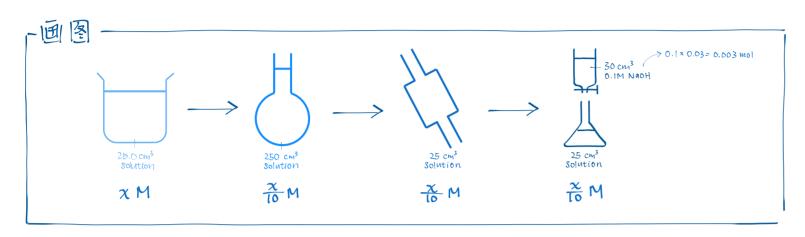
Titration (calculations)

1 Questions

LEVEL I

25.0 cm³ CH₃COOH is withdrawn to 250.0 cm³ v-flask.
Sol. in v-flask is withdrawn by 25.0 cm³ pipette to conical flask, and titrated against O.IM NaOH. 30 cm³ NaOH is needed for complete reaction.
Find Stock CH₃COOH concentration.



$$CH_3COOM n: NOOM n = 1:1 = n: 0.003$$

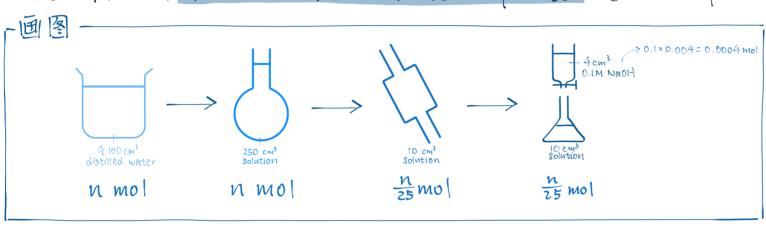
$$N = 0.003 \xrightarrow{CH_3COOM used in}$$

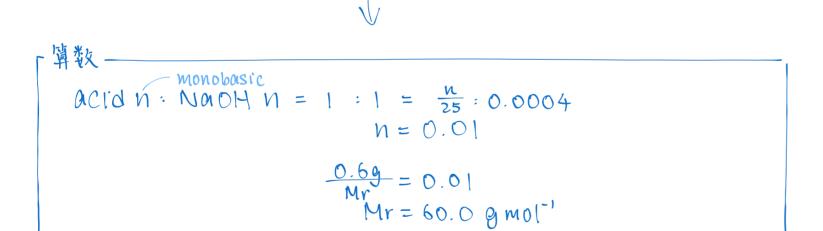
$$\frac{x}{10} = \frac{0.003}{0.025}$$

$$x = 1.2 \quad mol \quad dm^{-3}$$

LEVEL I

0.6 g monobasic acid is dissolved completely in a beaker W/100 cm³ distilled water. The Sol. in beaker is then poured into 250.0 cm³ v-flask. Distilled water is added until the graduation mark is reached. 10.0 cm³ of solution in v-flask is pipetted into conical flask. 4 cm³ o.1 M NaoH is required for complete reaction. Find acid Mr.





LEVEL III-

0.75g of Solid mixture (KOH & KzCO3) is dissolved in distilled water completely. It is titrated against 0.114 HClcaqs. An average of 120 cm3 HCl is used. Find KOH % by mass.

KOH% by mass = $\frac{0.342}{0.75} \cdot 100\% = 45.6\%$