

STARTER FOR 10!!!

3.4. Acid-base titrations

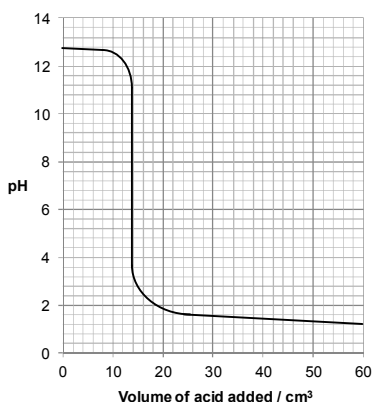
Some students are carrying out an investigation into the neutralisation reactions between strong acids and bases and weak acids and bases.

They titrate 25 cm³ samples of four different bases against four different acids as shown in the table below.

For each of the titrations 1 - 4;

- Choose the correct titration curve from those shown below,
- Name a suitable indicator for the titration,
- For titrations 1 and 2, calculate the concentration of the acid.

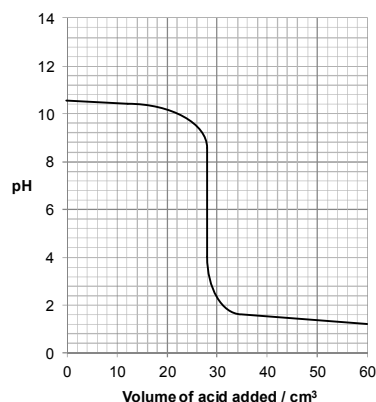
Titration	Base	Acid
1	0.100 mol dm ⁻³ NaOH	HCl
2	0.100 mol dm ⁻³ KOH	HCOOH
3	0.100 mol dm ⁻³ NH ₃ solution	HNO ₃
4	0.100 mol dm ⁻³ NaHCO ₃	CH ₃ COOH



Titration number: 1 2 3 4

Suitable indicator:

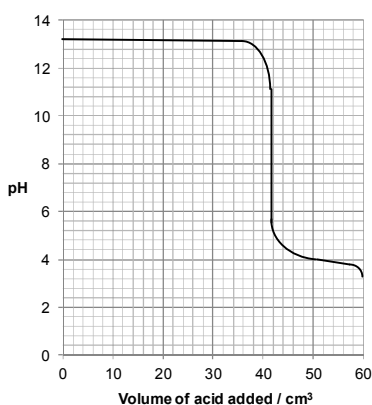
Conc. of acid (if needed):



Titration number: 1 2 3 4

Suitable indicator:

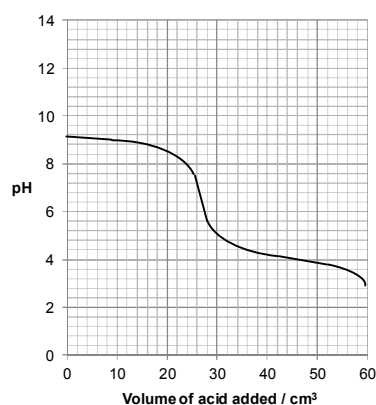
Conc. of acid (if needed):



Titration number: 1 2 3 4

Suitable indicator:

Conc. of acid (if needed):



Titration number: 1 2 3 4

Suitable indicator:

Conc. of acid (if needed):