

Solutions

Each answer shows the steps, then the **result**.

2.1

- the fixed volume into the flask is measured with a **(volumetric) pipette**

2.2

- the end-point shows the reaction is **exactly complete**

3.1 B

- the burette solution is run in **slowly, until the indicator just changes colour**
- A, C and D would miss the end-point

3.2

(a)

- pipette a fixed volume of NaOH into the flask and add indicator
- add acid from the burette **slowly**, swirling
- stop when the indicator **just changes colour** and read the burette

(b)

- the indicator shows the **end-point** by changing colour