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## Analytical

### Old - Methods

### Volumetric Methods

### Disadvantages

- ① Destructive methods → Sample cannot be recovered
- ② large amount of sample is required
- ③ less accurate & less precise

### Titrations

i- Acid-Base

ii- Redox

iii- Adsorption

① Direct  
titrations

② Back titrations → you add the excess of standard titrant to analyte and then you titrate the excess titrant to determine how much is excess.

→ This (-) minus the both quantities and will get the final value



→ give information