Method of Sections

- relies on internal forces being in equilibrium on a section
- cut to expose 3 or less members
- coplanar forces $\Sigma M = 0$ too

Graphical Analysis

- lettering rules (Bow’s notation)
- draw a force polygon of known loads and reaction forces
Graphical Analysis

- draw reference directions for members and find intersections
- measure and determine C or T
- follow steps!
- learn by example

Tools – Multiframe4D

- in computer lab

Other Trusses

- compound truss
  - simple trusses with more links
  - might have pins in middle of members
- statically indeterminate
  - too many members
  - constrained
  - diagonal tension counters

Tools – Multiframe4D

- frame window
  - define truss members
  - or pre-defined truss
  - select points, assign supports
  - select members, assign section & assign pin ends

- load window
  - select points, add point load
Tools – Multiframe4D

- to run analysis choose
  - case menu
    - Analyse...
      - Linear (1st order elastic)

- plot
  - choose options

- results
  - choose options