

In order to find the coordinates in horizontal plane.

* At least the coordinates of one point must be given or chosen arbitrarily.
* At least the azimuth of one side (leg) must be given or chosen arbitrarily.
* The horizontal distances between successive points must be measured.
* The horizontal angles between successive legs must be measured.


The difference between
$\Sigma$ Measured Angles and $\Sigma$ Inner (or Outer) Angles is the Angular Misclosure
Maximum Angular Misclosure $=2$ * Accuracy of Theodolite * $\sqrt{ }$ (No. of Angles)
If the misclosure is acceptable then distribute it equally to all angles.
Greater than tolerance go back to the field and re-measure!!


Fieldwork 4, Phase 1: Finding the coordinates of reference points by traversing.


