SE 312 - Introduction to Geomatics Engineering

Triangulation - Tutorial No. 5

A triangulation was carried out in clockwise run from A to observe horizontal angles of triangulation net ABQCA, including Base line **AB** whose azimuth was known to be <u>60° 00' 00''</u> and length 2600.00m

Observed horizontal angles of triangle ABC (interior angles) are given as:

$$$< QBC = 70^{\circ} \ 00' \ and < BCQ = 50^{\circ} \ 00'$$$

Assuming control point A (0.00; 0.00) m to be the origin of the coordinates system:

Compute:

- Lengths of sides AC, BC and BQ and Azimuths of sides BC and BQ
- Coordinates of points **B**, **C** and **Q**;

