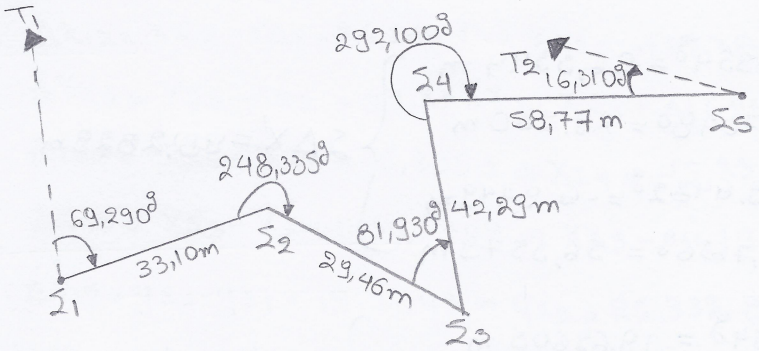

1. Υπολογισμός γωνιών διεύθυνσης αρχικής κ' τελικής πλευράς.

$$\alpha_{T_1\Sigma_1} = \arctan\left|\frac{-16305,08+16316,85}{25313,12-25387,82}\right| = \arctan\left|\frac{11,77}{-74,7}\right| = 9,949^g \text{ άρα}$$

$\Delta X>0$, $\Delta Y<0$

$\alpha_{T_1\Sigma_1} = 200 - \alpha_{T_1\Sigma_1}' \Rightarrow \alpha_{T_1\Sigma_1} = 190,051^g$

$$\alpha_{\Sigma_5 T_2}' = \arctan\left|\frac{-16222,40+16199,76}{25386,95-25387,63}\right| = \arctan\left|\frac{-22,64}{-0,68}\right| = 98,088^g \text{ άρα}$$

$\Delta X<0$, $\Delta Y<0$

$\alpha_{\Sigma_5 T_2} = 200 + \alpha_{\Sigma_5 T_2}'$ ή $\alpha_{\Sigma_5 T_2} = 298,088^g$

3ος Θεμ.

$\alpha_{\Sigma_5 T_2} = \alpha_{T_1\Sigma_1} + \beta_1 + \beta_2 + \beta_3 + \beta_4 + \beta_5 + 5\cdot 200 - \kappa 400 = 298,016^g$

2. Υπολογισμός γωνιακού σφάλματος

$w = 298,088 - 298,016 = 0,072^g$

και επειδή το γωνιακό σφάλμα ανεξάρτητο του μεγέθους της γωνίας, είναι $w/5 = 0,0144^g$

3. Διόρθωση στις μετρημένες γωνίες θάλασσης.

$\beta_1' = 69,290 + 0,0144 = 69,3044^g$
$\beta_2' = 248,335 + 0,0144 = 248,3494^g$
$\beta_3' = 81,930 + 0,0144 = 81,9444^g$
$\beta_4' = 292,100 + 0,0144 = 292,1144^g$
$\beta_5' = 16,310 + 0,0144 = 16,3244^g$

4. Υπολογισμός νέων γωνιών διεύθυνσης.

$\alpha_{\Sigma_1\Sigma_2}' = \alpha_{T_1\Sigma_1} + \beta_1' + 200 - \kappa 400 = 59,3554^g$
$\alpha_{\Sigma_2\Sigma_3}' = \alpha_{\Sigma_1\Sigma_2}' + \beta_2' + 200 - \kappa 400 = 107,7048^g$
$\alpha_{\Sigma_3\Sigma_4}' = \alpha_{\Sigma_2\Sigma_3}' + \beta_3' + 200 - \kappa 400 = 389,6492^g$
$\alpha_{\Sigma_4\Sigma_5}' = \alpha_{\Sigma_3\Sigma_4}' + \beta_4' + 200 - \kappa 400 = 81,7636^g$
$\alpha_{\Sigma_5 T_2}' = \alpha_{\Sigma_4\Sigma_5}' + \beta_5' + 200 - \kappa 400 = 298,088^g$ (ΕΛΕΓΧΟΣ: √).

5. Υπολογισμός προσωρινών $\Delta X', \Delta Y'$

$D_{12} = S_{12}\sin Z_{\Sigma_1\Sigma_2} = 33,10\cdot\sin 96,510^g = 33,050\,m$
$D_{23} = S_{23}\sin Z_{\Sigma_2\Sigma_3} = 29,46\sin 101,915^g = 29,445\,m$
$D_{34} = S_{34}\sin Z_{\Sigma_3\Sigma_4} = 42,29\sin 100,935^g = 42,285\,m$
$D_{45} = S_{45}\sin Z_{\Sigma_4\Sigma_5} = 58,77\sin 101,580^g = 58,752\,m$

$\Sigma D = 163,532\,m$