

Азимутальна засічка

1.(5450784,596 ; 3234507,611)

2.(5450890,547 ; 3234153,949)

3.(5450783,250 ; 3233977,093)

$$\beta_1 = 60^{\circ}49'54''$$

$$\beta_2 = 117^{\circ}15'23''$$

$$\beta_3 = 149^{\circ}11'20''$$

$$\alpha_{p0} = 107^{\circ}20'19''$$

Розв'язування:

$$\alpha_{p1} = \alpha_{p0} - \beta_1$$

$$\alpha_{p2} = \alpha_{p0} - \beta_2 =$$

$$\alpha_{p3} = \alpha_{p0} - \beta_3 =$$

$$\alpha_{1p} = \alpha_{p1} + 180^{\circ} =$$

$$\alpha_{2p} = \alpha_{p2} - 180^{\circ} =$$

$$\alpha_{3p} = \alpha_{p3} - 180^{\circ} =$$

$$r_{21} = \arctg \frac{\Delta y}{\Delta x} =$$

$$\alpha_{21} = r_{21} + 180^{\circ} =$$

$$\alpha_{12} = \alpha_{21} + 180^{\circ} =$$

$$r_{23} = \arctg \frac{\Delta y}{\Delta x} =$$

$$\alpha_{23} = r_{23} + 180^{\circ} =$$

$$\alpha_{32} = \alpha_{23} + 180^{\circ} - 360^{\circ} =$$

$$\varphi_1 = \alpha_{23} - \alpha_{2p} = 238^{\circ}35'42'' - 170^{\circ}4'56'' =$$

$$\varphi_2 = \alpha_{3p} - \alpha_{32} =$$

$$\varphi_3 = \alpha_{p2} - \alpha_{p3} =$$

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$$\gamma_1 = \alpha_{2p} - \alpha_{21} =$$

$$\gamma_2 = \alpha_{12} - \alpha_{1p} =$$

$$\gamma_3 = \alpha_{p1} + 360^\circ - \alpha_{p2} =$$

$$d_{21} = \sqrt{\Delta x^2 + \Delta y^2} = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2} =$$

$$d_{23} = \sqrt{\Delta x^2 + \Delta y^2} = \sqrt{(x_3 - x_2)^2 + (y_3 - y_2)^2} =$$

$$d_{2p} = \frac{d_{32} * \sin \varphi_2}{\sin \varphi_3} =$$

$$d_{2p} = \frac{d_{32} * \sin \varphi_1}{\sin \varphi_3} =$$

$$d_{1p} = \frac{d_{21} * \sin \gamma_1}{\sin \gamma_3} =$$

$$d_{3p} = \frac{d_{32} * \sin \gamma_1}{\sin \gamma_3} =$$

$$X_{p1} = X_1 + d_{1p} * \cos \alpha_{1p} =$$

$$Y_{p1} = Y_1 + d_{1p} * \sin \alpha_{1p} =$$

$$X_{p2} = X_2 + d_{2p} * \cos \alpha_{2p} =$$

$$Y_{p2} = Y_2 + d_{2p} * \sin \alpha_{2p} =$$

$$X_{p3} = X_3 + d_{3p} * \cos \alpha_{3p} =$$

$$Y_{p3} = Y_3 + d_{3p} * \sin \alpha_{3p} =$$

	X	Y
1		
2		
3		
X _{ср}		
Y _{ср}		

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