Азимутальна засічка

1.(5450784,596 ; 3234507,611)
2.(5450890,547 ; 3234153,949)
3.(5450783,250 ; 3233977,093)
$$β\_{1}=60°49'54''$$$$β\_{2}=117°15'23''$$$$β\_{3}=149°11'20''$$$$α\_{po}=107°20'19''$$

 *Розв'язування:*

$$α\_{p1}=α\_{p0}-β\_{1}=$$

$$α\_{p2}=α\_{p0}- β\_{2}=$$

$$α\_{p3}=α\_{p0}-β\_{3}=$$

$$α\_{1p}=α\_{p1}+180°=$$

$$α\_{2p}=α\_{p2}-180°=$$

$$α\_{3p}=α\_{p3}-180°=$$

$$r\_{21}=arctg\frac{∆y}{∆x}=$$

$$α\_{21}=α\_{21}+180°=$$

$$α\_{12}=α\_{21}+180°=$$

$$r\_{23}=arctg\frac{∆y}{∆x}=$$

$$α\_{23}=α\_{32}+180°=$$

$$α\_{32}=α\_{23}+180°-360°=$$

$$φ\_{1}=α\_{23}-α\_{2p}=$$

$$φ\_{2}=α\_{3p}-α\_{32}=$$

$$φ\_{3}=α\_{p2}-α\_{p3}=$$

$$γ\_{1}=α\_{2p}-α\_{21}=$$

$$γ\_{2}=α\_{12}-α\_{1p}=$$

$$γ\_{3}=α\_{p1}+360° -α\_{p2}=$$

$$d\_{21}=\sqrt{∆x^{2}+∆y^{2}}=\sqrt{\left(x\_{2}-x\_{1}\right)^{2}+\left(y\_{2}-y\_{1}\right)^{2}}==$$

$d\_{23}=\sqrt{∆x^{2}+∆y^{2}}=\sqrt{(x\_{3}-x\_{2})^{2}+(y\_{3}-y\_{2})^{2}}$

$$d\_{2p}=\frac{d\_{32}\*sinφ\_{2}}{sinφ\_{3}}=$$

$$d\_{2p}=\frac{d\_{32}\*sinφ\_{1}}{sinφ\_{3}}=$$

$$d\_{1p}=\frac{d\_{21}\*sinγ\_{1}}{sinγ\_{3}}=$$

$$d\_{3p}=\frac{d\_{32}\*sinγ\_{1}}{sinγ\_{3}}=$$

$$X\_{p1}=X\_{1}+d\_{1p}\*cosα\_{1p}$$

$$Y\_{p1}=Y\_{1}+d\_{1p}\*sinα\_{1p}$$

$$X\_{p2}=X\_{2}+d\_{2p}\*cosα\_{2p}$$

$$Y\_{p2}=Y\_{2}+d\_{2p}\*sinα\_{2p}$$

$$X\_{p3}=X\_{3}+d\_{3p}\*cosα\_{3p}$$

$$Y\_{p3}=Y\_{3}+d\_{3p}\*sinα\_{3p}$$

|  |  |  |
| --- | --- | --- |
|  | X | Y |
| 1 |  |  |
| 2 |  |  |
| 3 |  |  |
|  |  |  |
| Xсер |  |
| Yсер |  |