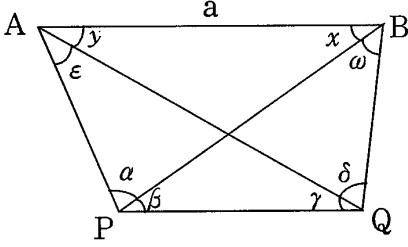


후방교회점계산부(2점법)

(제1면)

참조도				관측각	
				$\alpha =$ $\beta =$ $\gamma =$ $\delta =$	
기 지 점				기지변 방위각 계산	
각명	점명	X	Y	$\theta = \tan^{-1} \frac{\Delta y}{\Delta x}$	
A				V_a^b	
B				거 리 계 산	
방 향		Δx	Δy	a	
A→B					
소 구 점 각 계 산					
$\varepsilon = 180^\circ - (\alpha + \beta + \gamma)$		$\omega = 180^\circ - (\beta + \gamma + \delta)$		$x + y = \beta + \gamma, \frac{(x+y)}{2} = \frac{(\beta + \gamma)}{2}$	
	180°00'00"		180°00'00"	$\beta + \gamma$	
$\alpha + \beta + \gamma$		$\beta + \gamma + \delta$		$\frac{1}{2}(\beta + \gamma) = \frac{1}{2}(x + y)$	
ε		ω			
$\tan \phi = \frac{\pi_1}{\pi_2}$		$\tan \frac{1}{2}(x-y) = \tan \frac{1}{2}(x+y) \cot(45^\circ + \phi)$		$x = \frac{1}{2}(x+y) + \frac{1}{2}(x-y)$	
$\sin \varepsilon$		$\tan \frac{1}{2}(x+y)$		$\frac{1}{2}(x+y)$	
$\sin \beta$		$\cot(45^\circ + \phi)$		$\frac{1}{2}(x-y)$	
$\sin \delta$		$\tan \frac{1}{2}(x-y)$		x	
π_1		$y = \frac{1}{2}(x+y) - \frac{1}{2}(x-y)$		(검산) $x + y = \beta + \gamma$	
$\sin \alpha$		$\frac{1}{2}(x+y)$		x	
$\sin \gamma$		$\frac{1}{2}(x-y)$		y	
$\sin \omega$		y		$x + y$	
π_2		ϕ		$\beta + \gamma$	
$\tan \phi$		$45^\circ - \phi$		$(x+y) - (\beta + \gamma)$	

(제2면)

AP방위각(V_a^P)		BP방위각(V_b^P)		AQ방위각(V_a^Q)		B방위각(V_b^Q)	
V_a^b		V_b^a		V_a^b		V_b^a	
$y+\varepsilon$		x		y		$x+\omega$	
$V_a^b+(y+\varepsilon)$		V_b^a-x		V_a^b+y		$V_b^a+(x+\omega)$	
소 구 변 장 계 산							
$AP=\frac{a\cdot Sin\ x}{Sin\alpha}$				$AQ=\frac{a\cdot Sin\ (x+\omega)}{sin\ \delta}$			
$BP=\frac{a\cdot Sin\ (y+\varepsilon)}{Sin\ \alpha}$				$BQ=\frac{a\cdot Sin\ y}{Sin\ \delta}$			
소 구 점 중 횡 선 계 산							
P점명()				Q점명()			
Ax $AP\cdot \cos V_a^P$		Ay $AP\cdot \sin V_a^P$		Ax $AQ\cdot \cos V_a^Q$		Ay $AQ\cdot \sin V_a^Q$	
APx		APy		AQx		AQy	
Bx $BP\cdot \cos V_b^P$		By $BP\cdot \sin V_b^P$		Bx $BQ\cdot \cos V_b^Q$		By $BQ\cdot \sin V_b^Q$	
BPx		BPy		BQx		BQy	
Px		Py		Qx		Qy	

210mm×297mm(보존용지(1종) 70g/m²)