

清算計算書（水平）

多角測量座標計算簿 (計算計算)

路線番号	(1)		号	自	No. 295	至	B. 5	
測点	夾角		方向角	距離	S	S	x	y
	β	$\delta\beta$	α	S	$\cos\alpha$	$\sin\alpha$	Δx	Δy
					Δx	Δy	δx	δy
No. 296			$12 \ 60 \ 29 \checkmark$				- 43 848.419	- 10 745.248
No. 295	81	42	$14 \ 94 \ 15 \ 40 \ \checkmark$	137.575			- 2.792	+ 17.471
	-	3					+ 2	+ 1
							- 43 851.209	- 10 707.776
B. 1	264	47	$15 \ 79 \ 2 \ 51 \ \checkmark$	137.697			- 17.692	+ 0.627
	-	4					+ 1	+ 1
							- 43 888.900	- 10 707.148
B. 2	191	25	$31 \ 90 \ 27 \ 51 \ \checkmark$	27.809			- 27.376	- 5.056
	-	3					+ 1	+ 0
							- 43 916.275	- 10 712.204
B. 3	79	51	$58 \ 90 \ 19 \ 45 \ \checkmark$	46.307			- 0.266	+ 46.306
	-	4					+ 2	+ 1
							- 43 916.539	- 10 665.897
B. 4	187	12	$25 \ 97 \ 32 \ 7 \ \checkmark$	40.155			- 5.266	+ 19.808
	-	3					+ 2	+ 1
							- 43 921.803	- 10 626.088
B. 5								

$\Sigma\beta =$	804	58	55	$\Sigma S =$	189.573	$\Sigma(+)$	0.000	+ 124.212
$(N \pm 1) * 180 =$	720			$\Sigma\delta\beta =$		$\Sigma(-)$	- 73.392	- 5.056
	+ 84	58	55			$\Sigma\Delta Y \Sigma\Delta X$	- 73.392	+ 119.156
+da =	12	03	29	$ds = \sqrt{\Delta x^2 + \Delta y^2}$		Y_{0i}, X_{0i}	- 43 848.419	- 10 745.248
	97	32	24	$ds / \Sigma S =$		Y'_{i}, X'_{i}	- 43 921.811	- 10 626.092
-db =	97	32	7	$=$	1/	Y_i, X_i	- 43 921.803	- 10 626.088
$\Sigma\delta\beta =$	0	0	17			$\Sigma\delta Y, \Sigma\delta X$	- 0.008	- 0.004
	制限値				制限値			
	N =							

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路線番号	(2)号	自	至	S	S	x	y
測点	夾角 β $\delta\beta$	方向角 α	距離 S	$\cos\alpha$ Δx	$\sin\alpha$ Δy	Δx δx	Δy δy
NO.235		77.62	13			-43.852.171	10.629.300
NO.234	107.19 +4	7.184.51 14	65.077			-44.951 +1	-2.968 +1
B.6	165.2 +4	42.169.54 0	65.229			-34.683 +1	+6.178 +1
B.5	287.68 +4	13.227.62 7				-43.921.803 +1	-10.626.088 +1
B.4							
$\Sigma\beta =$		559.59	52	$\Sigma S =$	70.306	$\Sigma(+)$	0.000 + 6.178
$-(N\pm 1) \cdot 180 =$		360		$\Sigma\delta\beta =$		$\Sigma(-)$	-69.634 - 2.968
+da =		77.62	3	$ds = \sqrt{\Delta x^2 + \Delta y^2}$		$\Sigma\Delta Y \Sigma\Delta X$	-69.634 + 3.210
-db =		277.32	7	$ds / \Sigma S =$		Y_0i, X_0i	-43.852.171 - 10.629.300
$\Sigma\delta\beta =$		-1.2		$=$	1/	$Y'i, X'i$	-43.921.803 - 10.626.088
						Yi, Xi	-43.921.803 - 10.626.088
						$\Sigma\delta Y, \Sigma\delta X$	-0.002 - 0.002
制限値				制限値			
N =							

多角測量座標計算簿

(清算計算)

路線番号	夾角		方向角		自距離	S	S	x	y
測点	β	$\delta\beta$	α		S	$\cos\alpha$	$\sin\alpha$	Δx	Δy
						Δx	Δy	δx	δy
No. 337			108	47	6			-43990.147	-10630.829
No. 325	253	5	40	1	42	46	22.748	+22.738	+0.680
		0						-2	-1
								-43967.411	-10630.150
B.7	183	22	45	5	5	60	45.793	+45.612	+4.064
		-1						-4	-2
								-43921.803	-10626.088
B.5	92	26	87	27	22	7			
		0							
B.4									
$\Sigma\beta = 528$ 55 2 / $\Sigma S = 68$ 54 /					$\Sigma(+)$ + 68.350 + 4.744				
$(N\pm 1)*180 = 360$ / $\Sigma\delta\beta =$					$\Sigma(-)$ 0.000 / 0.000 /				
$+da = 108$ 47 6 $ds = \sqrt{\Delta x^2 + \Delta y^2}$					$\Sigma\Delta Y \Sigma\Delta X$ + 68.350 + 4.744 /				
$-db = 277$ 22 8 $ds / \Sigma S =$					Y_{0i}, X_{0i} -43990.147 -10630.829 /				
$\Sigma\delta\beta =$ + 1 / = 1 /					Y_i, X_i -43921.797 -10626.085 /				
					$\Sigma\delta Y, \Sigma\delta X$ + 0.006 + 0.003 /				
制限値					制限値				
N =									