Poligonski vlak

Izjednači poligonski vlak prema zadanim mjerenjima.

Stajalište: 71
Vizura

559	$(Hz)_I$ = 188° 00' 37"	$(Hz)_{II}$ = 8° 00' 17"
88	$(Hz)_I$ = 107° 45' 25"	$(Hz)_{II}$ = 287° 44' 59"

Stajalište: 559
Vizura

71	$(Hz)_I$ = 0° 00' 07"	$(Hz)_{II}$ = 179° 59' 49"
558	$(Hz)_I$ = 203° 19' 52"	$(Hz)_{II}$ = 23° 19' 28"

Stajalište: 558
Vizura

559	$(Hz)_I$ = 181° 55' 19"	$(Hz)_{II}$ = 1° 55' 41"
534	$(Hz)_I$ = 359° 59' 47"	$(Hz)_{II}$ = 180° 00' 15"

Stajalište: 534
Vizura

533	$(Hz)_I$ = 202° 34' 01"	$(Hz)_{II}$ = 22° 33' 35"
558	$(Hz)_I$ = 29° 25' 01"	$(Hz)_{II}$ = 209° 24' 41"

Stajalište: 533
Vizura

532	$(Hz)_I$ = 199° 22' 51"	$(Hz)_{II}$ = 19° 22' 35"
534	$(Hz)_I$ = 22° 33' 35"	$(Hz)_{II}$ = 202° 33' 15"

Stajalište: 532
Vizura

530	$(Hz)_I$ = 197° 40' 35"	$(Hz)_{II}$ = 17° 40' 13"
533	$(Hz)_I$ = 19° 22' 55"	$(Hz)_{II}$ = 199° 22' 31"

Stajalište: 530
Vizura

529	$(Hz)_I$ = 197° 30' 01"	$(Hz)_{II}$ = 17° 29' 45"
532	$(Hz)_I$ = 17° 40' 31"	$(Hz)_{II}$ = 197° 40' 17"

Stajalište: 529
Vizura

528	$(Hz)_I$ = 197° 34' 12"	$(Hz)_{II}$ = 17° 33' 58"
530	$(Hz)_I$ = 17° 30' 03"	$(Hz)_{II}$ = 197° 29' 45"

Stajalište: 528
Vizura

527	$(Hz)_I$ = 194° 22' 43"	$(Hz)_{II}$ = 14° 22' 21"
529	$(Hz)_I$ = 17° 34' 28"	$(Hz)_{II}$ = 197° 34' 02"

Stajalište: 527
Vizura

526	$(Hz)_I$ = 198° 53' 04"	$(Hz)_{II}$ = 18° 52' 42"
528	$(Hz)_I$ = 14° 22' 45"	$(Hz)_{II}$ = 194° 22' 17"

2c	Aritmetička sredina	Reducirana sredina

Stajalište: 526
Vizura

525	$(Hz)_I$ = 197° 21' 14"	$(Hz)_{II}$ = 17° 20' 48"
527	$(Hz)_I$ = 18° 53' 11"	$(Hz)_{II}$ = 198° 52' 47"

Stajalište: 525
Vizura

524	$(Hz)_I$ = 197° 52' 16"	$(Hz)_{II}$ = 17° 51' 48"
526	$(Hz)_I$ = 17° 21' 14"	$(Hz)_{II}$ = 197° 20' 52"

Stajalište: 524
Vizura

523	$(Hz)_I$ = 194° 59' 40"	$(Hz)_{II}$ = 14° 59' 18"
525	$(Hz)_I$ = 17° 52' 05"	$(Hz)_{II}$ = 197° 51' 39"

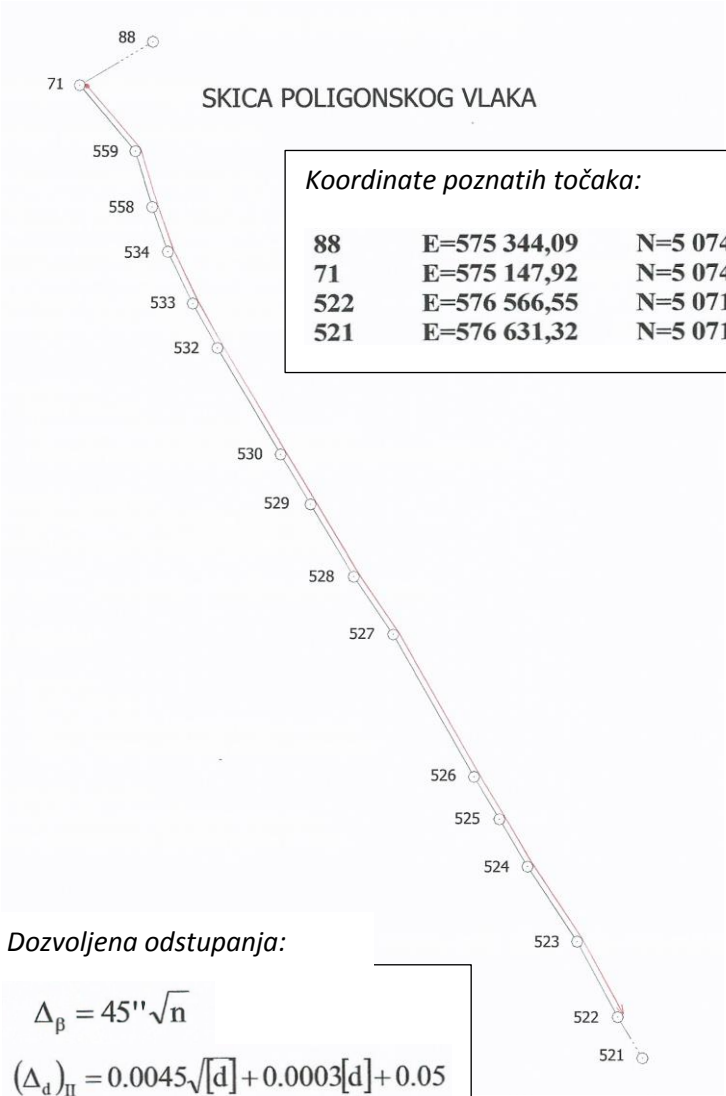
Stajalište: 523
Vizura

522	$(Hz)_I$ = 200° 08' 11"	$(Hz)_{II}$ = 20° 07' 45"
524	$(Hz)_I$ = 15° 00' 02"	$(Hz)_{II}$ = 194° 59' 36"

Stajalište: 522
Vizura

521	$(Hz)_I$ = 197° 28' 55"	$(Hz)_{II}$ = 17° 28' 33"
523	$(Hz)_I$ = 20° 06' 16"	$(Hz)_{II}$ = 200° 05' 46"

2c	Aritmetička sredina	Reducirana sredina



Koordinate poznatih točaka:

88	**E=575 344,09**	**N=5 074 293,31**
71	**E=575 147,92**	**N=5 074 177,70**
522	**E=576 566,55**	**N=5 071 707,84**
521	**E=576 631,32**	**N=5 071 599,18**

Horizontalne duljine:

$d_{(71-559)}$	= 227,61 m
$d_{(559-558)}$	= 153,74 m
$d_{(558-534)}$	= 125,96 m
$d_{(534-533)}$	= 151,25 m
$d_{(533-532)}$	= 135,20 m
$d_{(532-530)}$	= 327,69 m
$d_{(530-529)}$	= 154,33 m
$d_{(529-528)}$	= 222,87 m
$d_{(528-527)}$	= 186,01 m
$d_{(527-526)}$	= 433,76 m
$d_{(526-525)}$	= 131,25 m
$d_{(525-524)}$	= 145,66 m
$d_{(524-523)}$	= 238,10 m
$d_{(523-522)}$	= 226,72 m

Dozvoljena odstupanja:

$$\Delta_\beta = 45''\sqrt{n}$$

$$(\Delta_d)_{II} = 0.0045\sqrt{[d]} + 0.0003[d] + 0.05$$

Transformacija koordinata:

y' = y cos ε - x sin ε

x' = y sin ε + x cos ε

AS