

Name:

NEPTUN:

Use the given coordinates and the computation sheet to calculate the coordinates of the traverse points and write them into the table with centimeter precision. After that, draw a sketch of the traverse line.

List of coordinates

Point ID	Easting [m]	Northing [m]
S	624 157.31	182 458.25
E	625 312.52	183 312.35
T1	625 872.57	183 597.07
T2	623 567.83	182 899.66
T3	623 335.95	181 432.89
T4	628 503.26	186 776.96
T5	627 061.79	181 815.71
T6	624 968.90	183 810.02

Coordinates of the traverse points

Point ID	Easting [m]	Northing [m]
1	624 462.73	182 568.92
2	625 014.70	182 462.02
3	625 028.66	182 674.33

Station ID	Target ID	Mean Direction			Orientation angle			Whole Circle Bearing / Deflection angle			Distance [m]
		°	'	''	°	'	''	°	'	''	
S	T1	147	25	01	269	00	05	56	25	06	2058.890
	T2	37	50	04	268	59	32	306	49	36	736.429
	T3	309	41	01	269	00	46	218	41	47	1313.771
	1	161	04	58	269	00	12	70	05	10	324.82
1	S	91	55	17							324.85
	2	302	48	12				210	52	55	562.22
2	1	289	48	47							562.20
	3	12	36	45				82	47	58	212.74
3	2	333	12	08							212.78
	E	173	25	39				200	13	31	698.29
E	T4	30	47	28	11	51	09	42	38	37	4710.026
	T5	118	41	10	11	51	49	130	32	59	2302.146
	T6	313	31	10	11	51	24	325	22	34	604.776
	3	192	07	31	11	51	22	203	58	53	698.28

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Station	Distance	WCB			(ΔE)	(ΔN)	ΔE	ΔN
		β			$v\Delta E$	$v\Delta N$	E	N
		$v\beta$						
S		180	00	00				
		70	05	10				
				-8			624 157.310	182 458.250
1	324.835	70	05	02	305.407	110.653	305.418	110.666
		210	52	55				
				-8	0.011	0.013	624 462.728	182 568.916
2	562.210	100	57	49	551.949	-106.924	551.968	-106.901
		82	47	58				
				-8	0.019	0.023	625 014.696	182 462.015
3	212.760	3	45	39	13.955	212.302	13.962	212.311
		200	13	31				
				-8	0.007	0.009	625 028.658	182 674.326
E	698.285	23	59	02	283.839	637.995	283.862	638.024
		156	01	07				
				-9	0.023	0.029	625 312.52	183 312.350
Σ	1798.090	720	00	41	1155.150	854.026	1155.210	854.100
		720	00	00				
				-41	0.060	0.074		
					$\Delta L = 0.095$			

