

Diplomová práce	
Příloha č.:	5
Fakulta stavební - České vysoké učení technické v Praze	
Název přílohy:	Protokol výpočtu souřadnic
Počet stran:	7
Datum:	13.05.2022
Autor:	Jan Zbíral

IMPORT MĚŘENÍ

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Měřítkový koeficient: 1.000000000 (0.0 mm/100m)

STATISTIKA:

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Počet položek : 168  
 Počet stanovisek : 4  
 Počet bodů se šikmou délkou : 164  
 Počet bodů s vodorovnou délkou : 0  
 Počet bodů se zenitovým úhlem : 164  
 Počet bodů s převýšením : 0  
 Počet bodů s kódem / bez kódu : 0 / 168  
 Počet měření v I/II poloze : 164 / 0  
 Číslo min / Číslo max : 1 / 6004  
 Z min / Z max : 47.4769 / 114.7184  
 Délka min / Délka max : 3.914m / 24.881m  
 Signál min / Signál max : 0.000m / 1.710m

[1] POLÁRNÍ METODA DÁVKOU

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Orientace osnovy na bodě 6001:

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Bod	Y	X	Z
6001	700403.825	1012365.026	212.113

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Orientace:

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Bod	Y	X	Z
4001	700427.433	1012366.385	214.107
4002	700425.246	1012352.370	214.107
4003	700412.915	1012356.681	214.010
4004	700412.752	1012356.806	212.462
4005	700401.051	1012358.665	212.512
4006	700398.390	1012364.751	214.061
4007	700398.485	1012364.735	212.560
4008	700402.613	1012370.659	213.913
4009	700412.926	1012369.048	213.959
4010	700412.760	1012368.981	212.592

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Bod	Hz	Směrník	V or.	Délka	V délky	V přev.	m0	Red.
4001	2.8932	96.3393	0.0032	23.647	0.000	-0.003	0.0040	
4002	40.5264	133.9728	0.0035	24.881	-0.001	-0.003	0.0040	
4003	53.8360	147.2814	0.0025	12.340	-0.000	-0.003	0.0041	
4004	53.9327	147.3766	0.0010	12.134	0.001	-0.003	0.0042	
4005	132.7421	226.1797	-0.0052	6.940	-0.000	-0.004	0.0037	
4006	203.3445	296.7816	-0.0058	5.442	-0.000	-0.004	0.0036	*

4007	203.0961	296.5342	-0.0048	5.349	-0.001	-0.004	0.0038
4008	293.0668	386.5081	-0.0015	5.762	-0.000	-0.004	0.0042
4009	380.0623	73.5088	0.0037	9.951	-0.001	-0.004	0.0040
4010	380.0246	73.4709	0.0034	9.772	-0.001	-0.004	0.0040

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Orientační posun : 93.4429g  
 $m_0 = \text{SQRT}([vv]/(n-1))$  : 0.0040g  
 $\text{SQRT}([vv]/(n*(n-1)))$  : 0.0013g

Test polární metody:  
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Oprava orientace [g]: Skutečná hodnota: 0.0058, Mezní hodnota: 0.0800  
Mezní odchylky stanovené pro práci v katastru nemovitostí byly dodrženy.

Podrobné body

Polární metoda

Bod	Hz	Z	dH	V cíle	Délka	Y	X	Z	Popis
1	384.8383	76.2288		0.000	10.996	700414.187	1012368.705	218.090	
2	386.8331	76.1320		0.000	10.840	700414.149	1012368.331	218.089	
3	390.9085	75.5029		0.000	10.530	700414.038	1012367.588	218.088	
4	395.1192	74.9215		0.000	10.254	700413.914	1012366.858	218.085	
5	0.2537	74.4000		0.000	10.021	700413.797	1012366.017	218.085	
6	4.5106	74.0663		0.000	9.874	700413.694	1012365.343	218.084	
7	9.7383	73.7861		0.000	9.754	700413.567	1012364.539	218.083	
8	15.6562	73.6437		0.000	9.694	700413.420	1012363.645	218.083	
9	23.3196	73.7836		0.000	9.753	700413.242	1012362.488	218.083	
10	29.2303	74.1089		0.000	9.892	700413.096	1012361.577	218.084	
11	34.4915	74.5557		0.000	10.089	700412.958	1012360.740	218.085	
12	40.6811	75.3349		0.000	10.445	700412.805	1012359.692	218.085	
13	46.1237	76.1585		0.000	10.845	700412.642	1012358.711	218.086	
14	51.6898	77.2077		0.000	11.391	700412.471	1012357.610	218.085	
15	54.1893	77.5334		0.000	11.694	700412.396	1012357.070	218.088	
16	79.0439	67.8493		0.000	7.756	700407.074	1012357.983	218.089	
17	75.7398	65.9038		0.000	7.186	700407.169	1012358.666	218.087	
18	71.1658	63.3815		0.000	6.578	700407.296	1012359.439	218.088	
19	64.7407	60.2415		0.000	5.917	700407.438	1012360.340	218.088	
20	59.6956	58.0750		0.000	5.512	700407.526	1012360.941	218.088	
21	53.6276	55.9208		0.000	5.143	700407.625	1012361.560	218.088	
22	43.7346	53.1911		0.000	4.718	700407.761	1012362.425	218.090	
23	33.1722	51.2764		0.000	4.440	700407.883	1012363.223	218.088	
24	25.3699	50.4908		0.000	4.332	700407.969	1012363.764	218.089	
25	18.0249	50.2014		0.000	4.294	700408.050	1012364.257	218.090	
26	11.4715	50.2382		0.000	4.299	700408.111	1012364.694	218.090	
27	3.0555	50.9171		0.000	4.389	700408.207	1012365.267	218.087	
28	396.8400	51.7263		0.000	4.504	700408.277	1012365.711	218.089	
29	388.4950	53.4182		0.000	4.745	700408.380	1012366.354	218.084	
30	380.4080	55.5926		0.000	5.087	700408.489	1012367.057	218.086	
31	374.1096	57.7648		0.000	5.449	700408.581	1012367.685	218.082	
32	369.1906	59.8135		0.000	5.829	700408.678	1012368.254	218.084	
33	364.5183	61.9749		0.000	6.263	700408.771	1012368.868	218.083	

34 359.9012 64.1231 0.000 6.801 700408.880 1012369.576 218.089

Orientace osnovy na bodě 6002:

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Bod Y X Z  
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6002 700410.932 1012363.658 212.117  
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Orientace:

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Bod Y X Z  
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4001 700427.433 1012366.385 214.107  
4002 700425.246 1012352.370 214.107  
4003 700412.915 1012356.681 214.010  
4004 700412.752 1012356.806 212.462  
4006 700398.390 1012364.751 214.061  
4007 700398.485 1012364.735 212.560  
4008 700402.613 1012370.659 213.913  
4009 700412.926 1012369.048 213.959  
4010 700412.760 1012368.981 212.592  
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Bod Hz Směrník V or. Délka V délky V přev. m0 Red.  
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4001 0.7753 89.5733 0.0020 16.726 -0.001 0.004 0.0045  
4002 53.7116 142.5103 0.0027 18.229 0.000 0.004 0.0044  
4003 93.5797 182.3709 -0.0048 7.253 0.000 0.004 0.0041  
4004 94.6807 183.4720 -0.0047 7.089 0.001 0.004 0.0042  
4006 216.7408 305.5340 -0.0028 12.591 -0.001 0.004 0.0044  
4007 216.6998 305.4948 -0.0010 12.495 -0.001 0.003 0.0045  
4008 255.7425 344.5365 -0.0020 10.875 -0.002 0.004 0.0045  
4009 333.7593 22.5574 0.0021 5.746 0.001 0.003 0.0045  
4010 332.2547 21.0592 0.0085 5.628 0.000 0.004 0.0030 \*  
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Orientační posun : 88.7960g  
m0 = SQRT([vv]/(n-1)) : 0.0043g  
SQRT([vv]/(n\*(n-1))) : 0.0014g

Test polární metody:

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Oprava orientace [g]: Skutečná hodnota: 0.0085, Mezní hodnota: 0.0800  
Mezní odchylky stanovené pro práci v katastru nemovitostí byly dodrženy.

Podrobné body

Polární metoda

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Bod Hz Z dH V cíle Délka Y X Z Popis  
-----  
35 259.5784 72.6445 0.000 9.411 700404.110 1012370.141 218.080  
36 254.7999 71.8039 0.000 8.981 700403.976 1012369.339 218.077  
37 250.0522 70.7515 0.000 8.609 700403.877 1012368.591 218.076  
38 245.8584 70.0286 0.000 8.370 700403.772 1012367.993 218.077  
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39	240.9012	69.2676	0.000	8.134	700403.667	1012367.316	218.080
40	236.3046	68.7182	0.000	7.958	700403.585	1012366.715	218.076
41	231.2576	68.2618	0.000	7.828	700403.489	1012366.083	218.079
42	225.9712	68.0255	0.000	7.761	700403.379	1012365.442	218.080
43	220.3703	67.9206	0.000	7.730	700403.282	1012364.767	218.079
44	214.8163	68.0710	0.000	7.778	700403.167	1012364.099	218.082
45	209.6704	68.3562	0.000	7.863	700403.071	1012363.469	218.083
46	205.6044	68.6951	0.000	7.961	700403.002	1012362.959	218.081
47	201.0284	69.2656	0.000	8.137	700402.899	1012362.363	218.082
48	194.1298	70.3319	0.000	8.480	700402.755	1012361.411	218.082
49	190.4838	71.0449	0.000	8.722	700402.668	1012360.869	218.082
50	187.2760	71.7729	0.000	8.980	700402.579	1012360.362	218.082
51	184.4570	72.4905	0.000	9.246	700402.490	1012359.887	218.081
52	180.7332	73.4605	0.000	9.629	700402.385	1012359.223	218.081
53	177.2589	74.4356	0.000	10.058	700402.270	1012358.546	218.088

Orientace osnovy na bodě 6003:

Bod	Y	X	Z
6003	700416.616	1012362.261	212.115

Orientace:

Bod	Y	X	Z
4002	700425.246	1012352.370	214.107
4011	700419.810	1012350.202	213.806
4003	700412.915	1012356.681	214.010
4006	700398.390	1012364.751	214.061
4007	700398.485	1012364.735	212.560
4009	700412.926	1012369.048	213.959
4010	700412.760	1012368.981	212.592
4012	700423.075	1012370.225	213.765

Bod	Hz	Směrník	V or.	Délka	V délky	V přev.	m0 Red.
4002	85.7631	154.3277	0.0033	13.128	-0.001	-0.005	0.0011 *
4011	114.9541	183.5167	0.0012	12.475	-0.000	-0.005	0.0017
4003	168.7227	237.2831	-0.0010	6.694	0.002	-0.005	0.0017
4006	240.0838	308.6439	-0.0013	18.395	0.000	-0.005	0.0017
4007	240.0726	308.6334	-0.0005	18.299	0.000	-0.005	0.0018
4009	299.7380	368.2974	-0.0019	7.726	-0.001	-0.005	0.0016
4010	298.2748	366.8360	-0.0002	7.747	0.001	-0.005	0.0018
4012	374.8193	43.3810	0.0003	10.255	-0.001	-0.005	0.0018

Orientační posun : 68.5614g  
 $m_0 = \text{SQRT}([v_v]/(n-1))$  : 0.0017g  
 $\text{SQRT}([v_v]/(n*(n-1)))$  : 0.0006g

Test polární metody:

Oprava orientace [g]: Skutečná hodnota: 0.0033, Mezní hodnota: 0.0800  
Mezní odchylky stanovené pro práci v katastru nemovitostí byly dodrženy.

Podrobné body

Polární metoda

Bod	Hz	Z	dH	V cíle	Délka	Y	X	Z	Popis
54	390.6885	79.4365		0.000	12.740	700426.834	1012369.870	218.090	
55	399.9048	77.1174		0.000	11.333	700426.587	1012367.648	218.084	
56	4.2705	75.8983		0.000	10.685	700426.343	1012366.684	218.075	
57	8.7589	74.9267		0.000	10.228	700426.202	1012365.828	218.075	
58	14.4931	73.8817		0.000	9.769	700426.041	1012364.831	218.074	
59	18.2259	73.3497		0.000	9.546	700425.957	1012364.228	218.072	
60	22.1105	72.8350		0.000	9.338	700425.854	1012363.624	218.070	
61	26.8778	72.3531		0.000	9.151	700425.744	1012362.916	218.069	
62	30.8283	72.0643		0.000	9.040	700425.656	1012362.348	218.068	
63	36.3964	71.8516		0.000	8.958	700425.547	1012361.564	218.066	
64	42.4132	71.7641		0.000	8.924	700425.408	1012360.730	218.065	
65	48.2237	71.9248		0.000	8.978	700425.284	1012359.921	218.063	
66	53.2629	72.2231		0.000	9.085	700425.172	1012359.207	218.061	
67	59.9416	72.8152		0.000	9.305	700425.004	1012358.233	218.059	
68	65.7211	73.6187		0.000	9.622	700424.876	1012357.326	218.057	
69	69.7724	74.2496		0.000	9.893	700424.769	1012356.657	218.060	
70	74.8418	75.1961		0.000	10.316	700424.626	1012355.760	218.061	
71	79.4662	76.1673		0.000	10.788	700424.477	1012354.873	218.064	
72	83.8415	77.2519		0.000	11.364	700424.343	1012353.928	218.068	
73	87.4444	78.1637		0.000	11.888	700424.193	1012353.100	218.070	
74	90.5871	79.1217		0.000	12.489	700424.091	1012352.256	218.074	
75	94.3150	80.2265		0.000	13.249	700423.911	1012351.202	218.078	
76	98.2812	81.4427		0.000	14.190	700423.677	1012349.953	218.083	
77	112.9151	78.6506		0.000	12.215	700420.120	1012350.559	218.082	
78	109.9213	76.9016		0.000	11.194	700420.328	1012351.700	218.075	
79	107.4955	75.5412		0.000	10.500	700420.473	1012352.495	218.070	
80	103.7449	73.4640		0.000	9.580	700420.653	1012353.573	218.067	
81	99.5315	71.1919		0.000	8.719	700420.805	1012354.614	218.064	
82	96.5336	69.7166		0.000	8.223	700420.902	1012355.243	218.061	
83	92.5400	67.9117		0.000	7.677	700421.020	1012355.973	218.059	
84	87.8090	65.8965		0.000	7.136	700421.133	1012356.736	218.061	
85	81.0773	63.5704		0.000	6.579	700421.294	1012357.635	218.063	
86	76.1206	61.9232		0.000	6.218	700421.364	1012358.246	218.062	
87	69.2334	60.2483		0.000	5.875	700421.486	1012358.974	218.059	
88	60.0927	58.6004		0.000	5.569	700421.630	1012359.838	218.061	
89	51.5793	57.6641		0.000	5.399	700421.747	1012360.581	218.059	
90	42.8949	57.2324		0.000	5.325	700421.855	1012361.308	218.059	
91	29.5856	57.6612		0.000	5.398	700422.012	1012362.418	218.058	
92	23.4132	58.4766		0.000	5.542	700422.114	1012362.958	218.058	
93	16.5407	59.6523		0.000	5.761	700422.220	1012363.597	218.059	
94	8.9882	61.4131		0.000	6.107	700422.347	1012364.370	218.058	
95	4.1354	62.7741		0.000	6.393	700422.430	1012364.920	218.057	
96	398.1375	64.7726		0.000	6.859	700422.558	1012365.687	218.062	
97	392.7937	66.7627		0.000	7.367	700422.667	1012366.463	218.064	

98	387.6313	68.9987	0.000	8.015	700422.807	1012367.351	218.069
99	383.6987	71.0468	0.000	8.678	700422.966	1012368.176	218.068
100	374.9994	75.6895	0.000	10.600	700423.316	1012370.475	218.082

Orientace osnovy na bodě 6004:

Bod	Y	X	Z
6004	700421.929	1012363.710	212.116

Orientace:

Bod	Y	X	Z
4002	700425.246	1012352.370	214.107
4011	700419.810	1012350.202	213.806
4013	700416.323	1012354.110	213.957
4003	700412.915	1012356.681	214.010
4006	700398.390	1012364.751	214.061
4007	700398.485	1012364.735	212.560
4014	700416.947	1012369.670	214.010
4012	700423.075	1012370.225	213.765

Bod	Hz	Směrník	V or.	Délka	V délky	V přev.	m0	Red.
4002	112.6894	181.8840	0.0018	11.817	-0.002	0.004	0.0028	
4011	140.7158	209.9059	-0.0026	13.675	-0.002	0.004	0.0027	
4013	164.4530	233.6479	0.0022	11.119	-0.002	0.004	0.0027	
4003	188.6450	257.8371	-0.0007	11.431	-0.000	0.005	0.0029	
4006	233.6204	302.8136	0.0005	23.562	0.000	0.004	0.0029	
4007	233.5889	302.7816	-0.0000	23.467	-0.001	0.004	0.0029	
4014	286.4788	355.6751	0.0035	7.768	0.000	0.004	0.0025	
4012	341.8969	11.0849	-0.0048	6.615	0.000	0.004	0.0020 *	

Orientační posun : 69.1927g  
 $m_0 = \text{SQRT}([vv]/(n-1))$  : 0.0027g  
 $\text{SQRT}([vv]/(n*(n-1)))$  : 0.0010g

Test polární metody:

Oprava orientace [g]: Skutečná hodnota: 0.0048, Mezní hodnota: 0.0800  
 Mezní odchylky stanovené pro práci v katastru nemovitostí byly dodrženy.

Podrobné body

Polární metoda

Bod	Hz	Z	dH	V cíle	Délka	Y	X	Z	Popis
101	308.1787	68.6683		0.000	7.966	700419.157	1012371.178	218.087	
102	304.2148	66.0403		0.000	7.211	700419.004	1012370.301	218.074	
103	294.9791	60.4202		0.000	5.931	700418.765	1012368.726	218.066	
104	289.4241	57.6728		0.000	5.418	700418.650	1012368.023	218.063	

105	283.4169	55.1424	0.000	4.994	700418.545	1012367.383	218.062
106	276.1706	52.6618	0.000	4.616	700418.436	1012366.728	218.061
107	268.4006	50.5020	0.000	4.310	700418.349	1012366.110	218.059
108	256.5697	48.3054	0.000	4.021	700418.233	1012365.293	218.057
109	245.8922	47.5626	0.000	3.928	700418.111	1012364.632	218.057
110	236.0889	47.4769	0.000	3.914	700418.028	1012364.034	218.053
111	229.7225	47.8631	0.000	3.963	700417.967	1012363.642	218.054
112	218.2793	49.4327	0.000	4.165	700417.844	1012362.896	218.056
113	207.4225	51.8720	0.000	4.497	700417.732	1012362.095	218.056
114	200.8678	54.0286	0.000	4.812	700417.639	1012361.529	218.055
115	193.1763	57.1098	0.000	5.313	700417.517	1012360.749	218.057
116	187.1457	60.0682	0.000	5.849	700417.403	1012360.006	218.056
117	181.2642	63.4699	0.000	6.561	700417.256	1012359.104	218.057
118	177.7265	65.8069	0.000	7.118	700417.145	1012358.439	218.055
119	173.9694	68.3748	0.000	7.823	700417.022	1012357.617	218.057
120	171.0612	70.5120	0.000	8.491	700416.911	1012356.861	218.057
121	168.4966	72.5981	0.000	9.241	700416.772	1012356.042	218.059
122	165.7638	74.8458	0.000	10.180	700416.616	1012355.026	218.062
123	163.6682	76.6492	0.000	11.053	700416.474	1012354.097	218.062
124	161.7927	78.4172	0.000	12.045	700416.295	1012353.064	218.064
125	160.6699	79.4560	0.000	12.705	700416.185	1012352.377	218.064
126	158.7366	81.0714	0.000	13.903	700416.023	1012351.124	218.076
127	122.9091	81.1204	0.000	13.967	700423.657	1012349.850	218.084
128	373.7278	68.4942	0.000	7.918	700426.872	1012369.896	218.089
129	139.5563	80.4095	0.000	13.422	700420.090	1012350.415	218.082