

Data for Star Constellations

An online available dataset, according to [Be51] BEČVÁŘ, A. 1951. *Atlas Coeli. Skalnaté Pleso II*. Praha: Přírodovědecké vydavatelství 1951. This is to provide the complete input data for the paper

Computational Morphology for Standard Star Constellations

Jerguš Moravčík, Ivana Kolingerová, Andrej Ferko

moravcik@fns.uniba.sk, ferko@fmph.uniba.sk, kolinger@kiv.zcu.cz

Comenius University, SK, West Bohemian University, CZ

Abstract

We introduce a novel method how a majority of edges in all 88 standard star constellations can be qualitatively classified...

Znacka	Pôvodné	Pocet neznámych	% známych	DANN hrán v	DANN hrán	% DANN hrán v	MST hrán v	MST hrán	% MST hrán v	DT hrán v	DT hrán	% DT hrán v
súhvezdia	hrany	hrán	hrán	súhv.	celkove	hrán v	súhv	celkove	súhv.	súhv.	celkove	súhv.
and	13	0	100	4	4	30.8	9	13	69.2	13	33	100
ant	3	0	100	2	2	66.7	3	3	100	3	5	100
aps	3	0	100	1	1	33.3	3	3	100	3	6	100
aql	11	0	100	4	4	36.4	9	10	81.8	11	25	100
aqr	13	0	100	4	4	30.8	11	13	84.6	13	33	100
ara	7	0	100	2	2	28.6	6	6	85.7	7	14	100
ari	5	0	100	2	2	40	5	5	100	5	10	100
aur	8	0	100	2	2	25	7	7	87.5	8	15	100
boo	14	0	100	4	5	28.6	12	13	85.7	14	33	100
cae	1	0	100	1	1	100	1	1	100	1	1	100
cam	4	0	100	1	1	25	3	4	75	4	7	100
cap	10	0	100	4	4	40	8	9	80	10	20	100
car	9	0	100	3	3	33.3	6	9	66.7	9	20	100
cas	4	0	100	1	1	25	4	4	100	4	8	100
cen	22	1	100	6	7	27.3	17	21	77.3	21	56	95.5
cep	9	0	100	2	2	22.2	7	8	77.8	9	18	100
cet.	17	0	100	4	4	23.5	14	15	82.4	17	37	100
cha	4	0	100	0	1	0	2	3	50	4	5	100
cir	2	0	100	0	1	0	1	2	50	2	3	100
cma	12	0	100	3	3	25	11	12	91.7	12	30	100
cmi	1	0	100	1	1	100	1	1	100	1	1	100
cnc	4	0	100	1	1	25	3	4	75	4	9	100
col	6	0	100	3	3	50	6	6	100	6	14	100
com	2	0	100	1	1	50	2	2	100	2	3	100
cra	6	0	100	2	2	33.3	6	6	100	6	11	100
crb	6	0	100	2	2	33.3	6	6	100	6	11	100
crt	8	0	100	4	4	50	7	7	87.5	8	16	100
cru	2	1	50	0	1	0	0	3	0	1	5	50
crv	5	0	100	2	2	40	4	4	80	5	7	100
cvn	1	0	100	1	1	100	1	1	100	1	1	100
cyg	8	0	100	3	3	37.5	8	8	100	8	20	100
del	5	0	100	0	1	0	3	4	60	5	8	100
dor	5	0	100	2	2	40	4	5	80	5	11	100
dra	15	0	100	4	4	26.7	13	14	86.7	15	36	100
equ	4	0	100	2	2	50	3	3	75	4	5	100
eri	30	0	100	10	11	33.3	28	31	93.3	30	82	100
for	2	0	100	1	1	50	2	2	100	2	3	100
gem	14	0	100	5	5	35.7	12	13	85.7	14	31	100
gru	10	0	100	3	3	30	9	10	90	10	25	100
her	21	0	100	8	8	38.1	18	20	85.7	21	53	100
hor	6	0	100	2	2	33.3	6	6	100	6	13	100
hya	17	0	100	6	6	35.3	16	16	94.1	17	39	100
hyi	5	1	80	1	1	20	3	5	60	4	11	80
ind	3	0	100	1	1	33.3	3	3	100	3	6	100

1.1.1

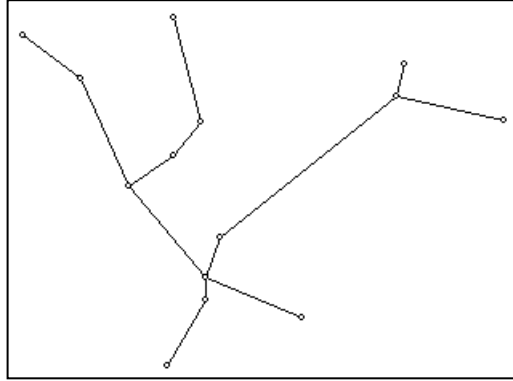
Značka	Pôvodné	Počet	%	DANN	DANN	% DANN	MST	MST	% MST	DT	DT	% DT
		neznámych	známych	hrán v	hrán	hrán v	hrán v	hrán	hrán v	hrán v	hrán	hrán v
súhvezdia	hrany	hrán	hrán	súhv.	celkove	súhv.	súhv.	celkove	súhv.	súhv.	celkove	súhv.
lac	7	0	100	3	3	42,9	7	7	100	7	16	100
leo	14	0	100	3	4	21,4	11	13	78,6	14	33	100
lep	9	0	100	3	3	33,3	8	9	88,9	9	23	100
lib	8	1	87,5	2	2	25	7	7	87,5	7	16	87,5
lmi	2	0	100	1	1	50	2	2	100	2	3	100
lup	11	0	100	3	3	27,3	7	10	63,6	11	24	100
lyn	6	0	100	2	2	33,3	6	6	100	6	11	100
lyr	5	0	100	2	2	40	3	4	60	5	8	100
men	3	0	100	1	1	33,3	3	3	100	3	5	100
mic	3	0	100	1	1	33,3	3	3	100	3	5	100
mon	6	0	100	3	3	50	5	6	83,3	6	12	100
mus	5	0	100	1	2	20	4	5	80	5	11	100
nor	2	0	100	1	1	50	2	2	100	2	3	100
oct	3	0	100	1	1	33,3	2	2	66,7	3	3	100
oph	14	0	100	3	3	21,4	12	13	85,7	14	33	100
ori	17	0	100	6	7	35,3	14	17	82,4	17	42	100
pav	10	0	100	3	3	30	6	9	60	10	21	100
peg	14	1	92,9	6	6	42,9	10	13	71,4	13	32	92,9
per	16	0	100	5	5	31,3	13	16	81,3	16	41	100
phe	10	1	90	3	4	30	4	9	40	9	19	90
pic	2	0	100	1	1	50	2	2	100	2	3	100
psa	8	0	100	2	2	25	5	7	62,5	8	15	100
psc	16	0	100	5	6	31,3	14	15	87,5	16	39	100
pup	11	0	100	2	2	18,2	8	10	72,7	11	24	100
pyx	2	0	100	1	1	50	2	2	100	2	3	100
ret	4	0	100	0	1	0	2	3	50	4	5	100
scl	3	0	100	1	1	33,3	3	3	100	3	5	100
sco	18	1	94,4	6	6	33,3	16	17	88,9	17	44	94,4
sct	3	0	100	1	1	33,3	2	3	66,7	3	6	100
ser	13	0	100	6	6	46,2	12	13	92,3	13	33	100
sex	2	0	100	1	1	50	2	2	100	2	3	100
sge	4	0	100	1	2	25	3	4	75	4	9	100
sgr	23	0	100	6	7	26,1	20	22	87	23	58	100
tau	14	0	100	4	5	28,6	13	14	92,9	14	37	100
tel	2	0	100	1	1	50	2	2	100	2	3	100
tra	3	0	100	1	1	33,3	2	2	66,7	3	3	100
tri	3	0	100	1	1	33,3	2	2	66,7	3	3	100
tuc	6	0	100	2	2	33,3	5	5	83,3	6	9	100
uma	19	0	100	6	7	31,6	14	17	73,7	19	45	100
umi	7	0	100	3	3	42,9	6	6	85,7	7	12	100
vel	11	0	100	3	3	27,3	9	10	81,8	11	21	100
vir	15	0	100	5	5	33,3	11	14	73,3	15	34	100
vol	6	0	100	2	2	33,3	5	5	83,3	6	10	100
vul	2	0	100	1	1	50	2	2	100	2	3	100

**[Be51] BEČVÁŘ, A. 1951. *Atlas Coeli. Skalnaté Pleso II.*
Praha: Přírodovědecké vydavatelství 1951.**

Appendix. The complete dataset offers an international short name, its Slovak translation, coordinates of projected stars list, and a related figure.

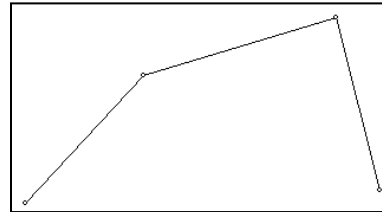
AND – Andromeda

0.793642	0.625906
1.000000	0.507201
0.777619	0.558920
0.410155	0.264520
0.316204	0.720905
0.372658	0.505411
0.316201	0.436635
0.000000	0.686255
0.121954	0.596426
0.220482	0.371511
0.301413	0.000000
0.380619	0.134792
0.381947	0.181937
0.582601	0.098013



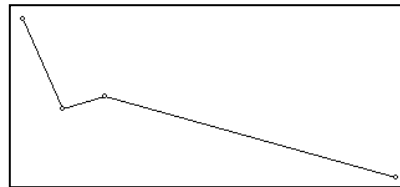
ANT – Výveva

0.336185	0.356876
1.000000	0.035111
0.877066	0.520383
0.000000	0.000000



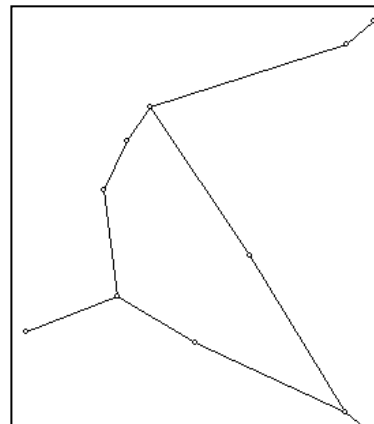
APS – Rajka

0.222560	0.216638
1.000000	0.000000
0.000000	0.420751
0.107955	0.180181



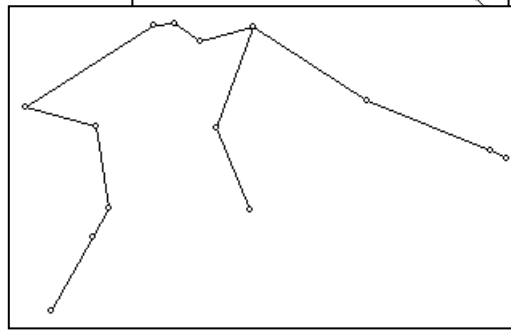
AQL – Orol

0.549680	0.425895
0.835395	0.000000
0.780881	0.041140
0.414082	0.212893
0.000000	0.239028
0.224353	0.324707
0.192583	0.585723
0.248350	0.704162
0.850738	1.000000
0.784697	0.942791
0.303473	0.787847



AQR – Vodnár

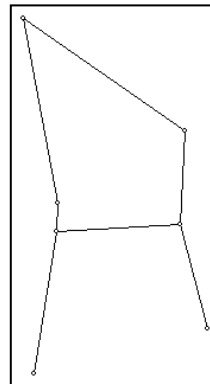
0.397710	0.378094
0.475209	0.587119
1.000000	0.313782



0.968739	0.330004
0.712118	0.435700
0.055830	0.000000
0.143074	0.150345
0.174548	0.213191
0.149358	0.381092
0.000000	0.420022
0.267620	0.592239
0.313308	0.595437
0.363758	0.557569
0.468522	0.207210

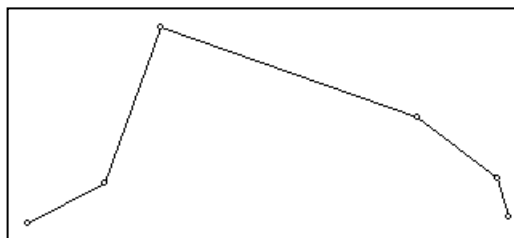
ARA – Oltár

0.097873	0.477830
0.000000	1.000000
0.454829	0.682322
0.519818	0.124719
0.443094	0.419479
0.032014	0.000000
0.096589	0.398975



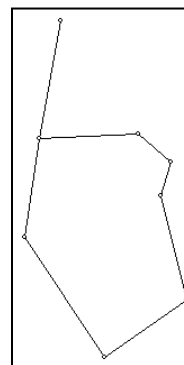
ARI – Baran

0.278327	0.404958
1.000000	0.010531
0.979001	0.090855
0.812487	0.219233
0.000000	0.000000
0.160718	0.081993



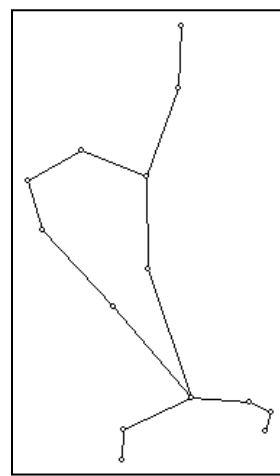
AUR – Povožník

0.404858	0.478483
0.109142	1.000000
0.481649	0.168860
0.436498	0.578917
0.336797	0.663078
0.046356	0.649137
0.000000	0.354170
0.237758	0.000000



BOO – Pastier

0.277490	0.439069
0.548643	0.065764
0.560109	0.109876
0.512268	0.130401
0.216961	0.000000
0.220395	0.069612
0.353350	1.000000
0.349124	0.855150



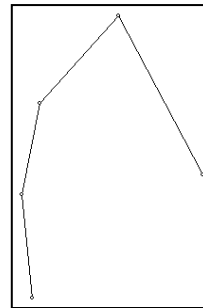
0.000000	0.642119
0.379547	0.143109
0.276178	0.650670
0.124468	0.710390
0.034864	0.529265
0.199212	0.351961

CAE – Rydlo

0.063242	0.000000
0.000000	1.000000

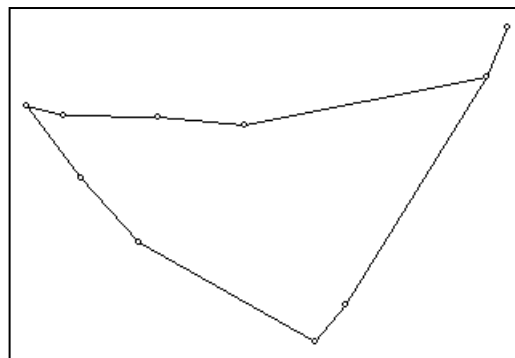
CAM – Žirafa

0.063723	0.689111
0.037442	0.000000
0.000000	0.365571
0.638669	0.435726
0.342080	1.000000



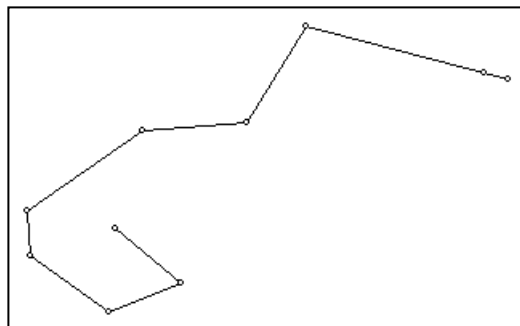
CAP – Kozorožec

0.456038	0.449939
1.000000	0.652583
0.957544	0.549132
0.664150	0.075186
0.602159	0.000000
0.233850	0.206436
0.116069	0.339345
0.000000	0.488925
0.077555	0.467920
0.274940	0.466618



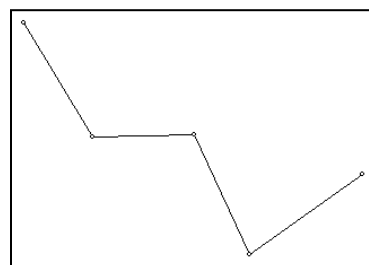
CAR – Kýl

0.458608	0.391478
0.184019	0.172136
0.321355	0.058059
0.170981	0.000000
0.009642	0.115361
0.000000	0.207949
0.240910	0.376380
1.000000	0.482408
0.950251	0.495187
0.580415	0.590525



CAS – Kasiopeja

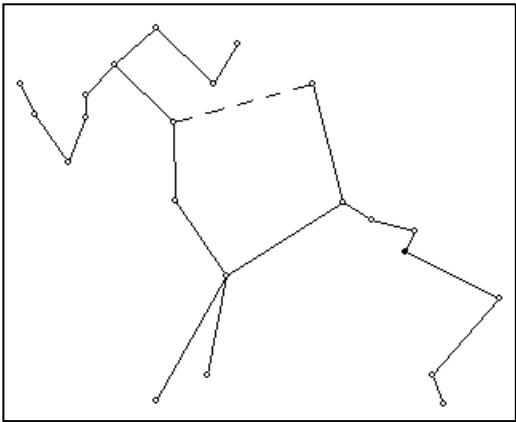
0.667672	0.000000
0.000000	0.682139
0.204162	0.345066
0.503493	0.351554
1.000000	0.235976



CEN – Centaurus

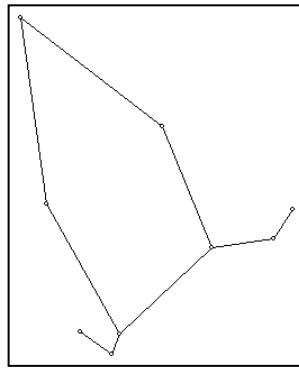
0.675168	0.417437
0.454090	0.748159
0.405751	0.665598
0.283564	0.780879
0.000000	0.665780
0.030580	0.601502
0.100022	0.500235
0.137393	0.593495
0.137815	0.640546
0.199802	0.704233
0.320170	0.583543
0.610614	0.664436
0.325172	0.421715
0.284710	0.005505
0.431283	0.266313
0.861578	0.056894
0.804170	0.314664
0.736240	0.380143

0.392559	0.057372
0.883848	0.000000
1.000000	0.217182
0.823616	0.359669



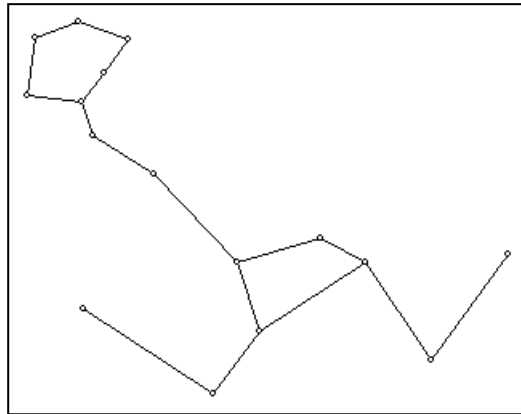
CEP – Cefeus

0.179347	0.063746
0.272368	0.000000
0.807734	0.427606
0.752988	0.341805
0.566690	0.316581
0.420576	0.674350
0.000000	1.000000
0.079232	0.443409
0.296094	0.057228



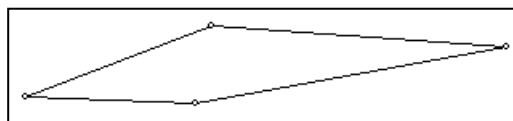
CET – Veľryba

0.439981	0.270668
0.161904	0.663521
0.211267	0.734728
0.109833	0.770408
0.019515	0.737465
0.000000	0.619837
0.115200	0.604228
0.138266	0.533395
0.264112	0.454270
1.000000	0.288199
0.842504	0.066854
0.705302	0.270010
0.611395	0.323238
0.119172	0.174643
0.389414	0.000000
0.484899	0.129023



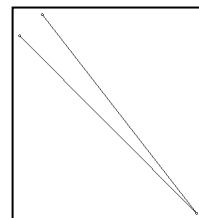
CHA – Chameleón

0.387518	0.157378
0.000000	0.011879
0.353474	0.000000
1.000000	0.113808



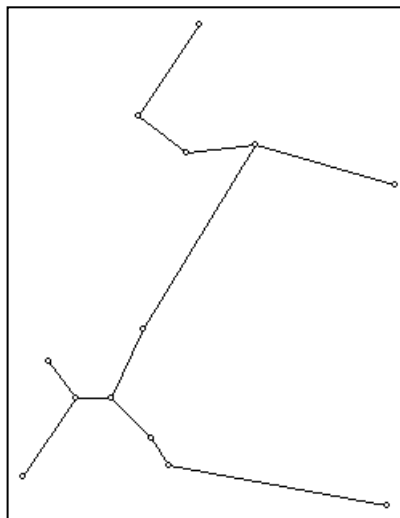
CIR – Kružidlo

0.887657	0.000000
0.114386	1.000000
0.000000	0.890933



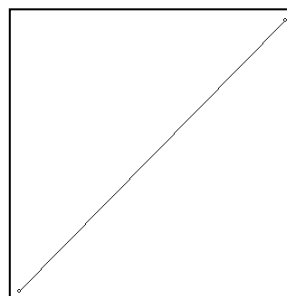
CMA - Velký pes

0.267835	0.138129
0.251271	0.363470
0.758127	0.000000
0.304935	0.081168
0.000000	0.056809
0.056044	0.298482
0.113243	0.223224
0.185515	0.221911
0.368918	1.000000
0.240905	0.809553
0.341023	0.732848
0.775863	0.664280
0.485863	0.747569



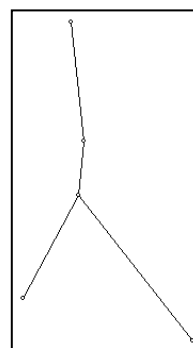
CMI - Malý Pes

0.000000	0.000000
0.983086	1.000000



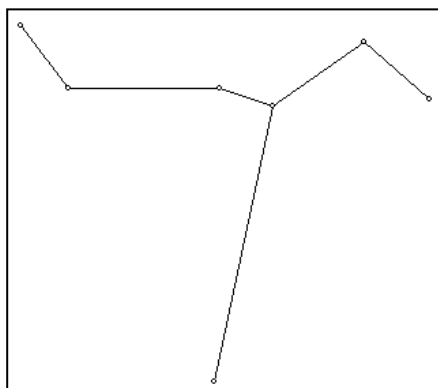
CNC – Rak

0.174496	0.454089
0.533062	0.000000
0.000000	0.131426
0.151452	1.000000
0.191340	0.625527



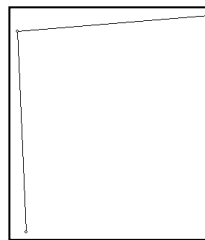
COL – Holubica

0.617362	0.671582
0.000000	0.869274
0.119981	0.715661
0.489359	0.716563
1.000000	0.688964
0.840551	0.828766
0.474395	0.000000



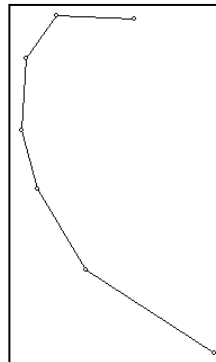
COM – Vlasy Bereniky

0.000000	0.925037
0.882093	1.000000
0.040288	0.000000



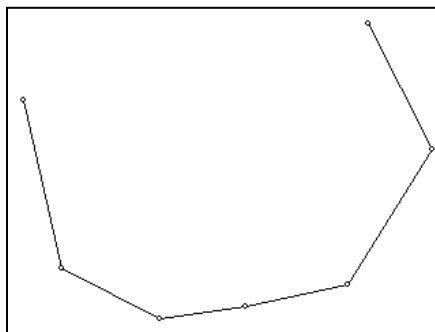
CRA – Južná koruna

0.016335	0.871160
0.571438	0.000000
0.191921	0.246543
0.048457	0.486102
0.000000	0.659964
0.335293	0.988319
0.106072	1.000000



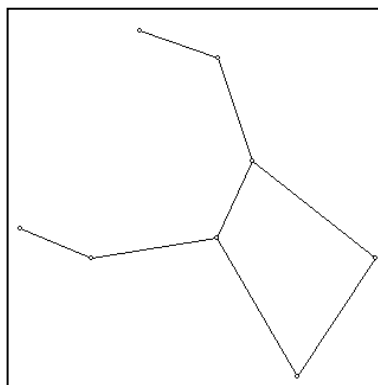
CRB – Severná koruna

0.794183	0.082438
0.845446	0.719952
1.000000	0.410798
0.546130	0.027221
0.334798	0.000000
0.094596	0.121073
0.000000	0.533113



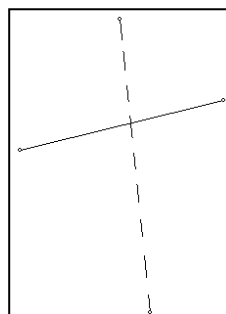
CRT – Pohár

0.554802	0.386848
0.337377	0.973185
0.559701	0.895725
0.655186	0.604634
1.000000	0.333286
0.782829	0.000000
0.000000	0.415290
0.202203	0.332314



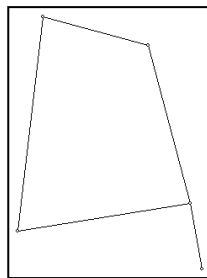
CRU – Južný kríž

0.446063	0.000000
0.342197	1.000000
0.694811	0.722773
0.000000	0.551116



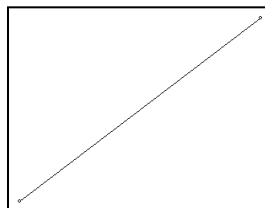
CRV – Havran

0.684724	0.258938
0.517697	0.884082
0.102772	1.000000
0.000000	0.148412
0.733257	0.000000



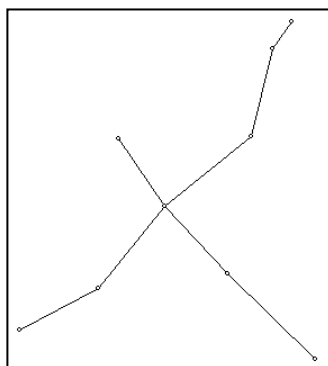
CVN – Poľovné psy

0.000000	0.000000
1.000000	0.756793



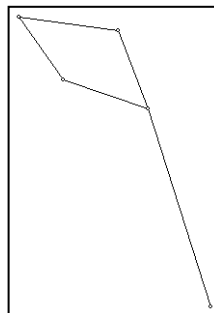
CYG – Labuť

0.430228	0.450105
0.000000	0.086385
0.233549	0.208468
0.296502	0.652117
0.876713	0.000000
0.617840	0.251943
0.809602	1.000000
0.750556	0.919112
0.689214	0.656862



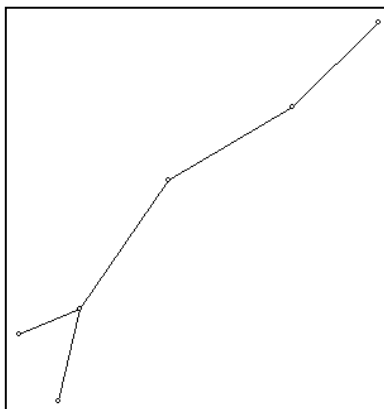
DEL – Delfín

0.664458	0.000000
0.448158	0.680948
0.154935	0.782375
0.345365	0.952453
0.000000	1.000000



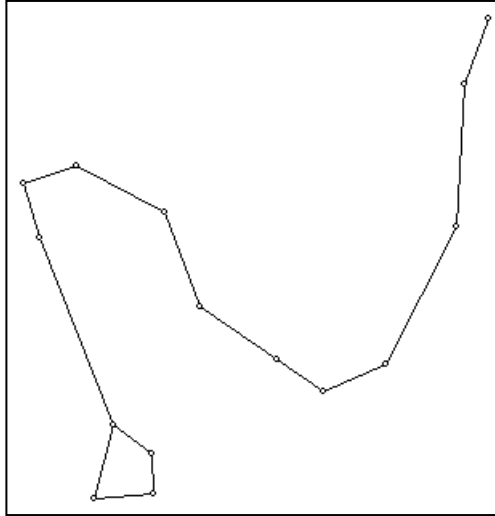
DOR – Mečiar

0.395362	0.581549
0.000000	0.176254
0.104500	0.000000
0.160815	0.243045
0.949170	1.000000
0.721170	0.774372



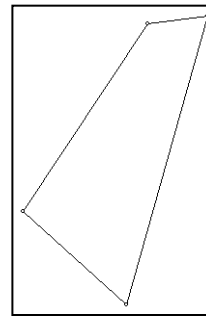
DRA – Drak

0.368712	0.398119
0.967359	1.000000
0.917983	0.862003
0.900035	0.564040
0.753463	0.278637
0.624520	0.220241
0.526744	0.286920
0.293440	0.594072
0.112173	0.690897
0.000000	0.655137
0.035728	0.540115
0.188017	0.152011
0.148928	0.000000
0.270505	0.007333
0.269197	0.090685



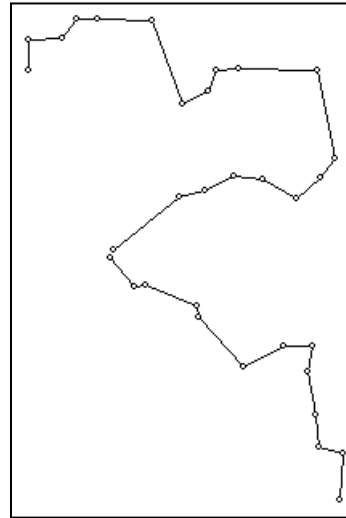
EQU – Koník

```
0.639663  1.000000
0.430895  0.972977
0.000000  0.323078
0.358781  0.000000
```



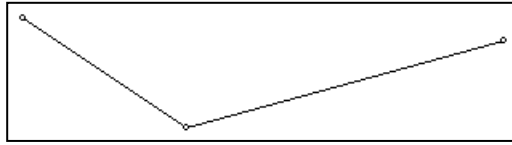
ERI – Eridanus

0.313779	0.628761		
0.649578	0.000000		
0.655210	0.096025		
0.603477	0.108866		
0.597203	0.176328		
0.581702	0.264369		
0.591580	0.317809		
0.530240	0.317575		
0.449186	0.275573		
0.355501	0.377064		
0.353101	0.403144		
0.244318	0.446287		
0.220919	0.441426		
0.171530	0.502497		
0.178565	0.517784		
0.000000	0.890362	0.003317	0.956208
0.070401	0.957104	0.103303	0.998652
0.145336	1.000000	0.258354	0.996433
0.322383	0.823254	0.376507	0.848392
0.390359	0.890359	0.437524	0.893938
0.602299	0.890741	0.638283	0.708080
0.608855	0.666753	0.556712	0.623747
0.487703	0.664723	0.426741	0.670526
0.369733	0.642398		



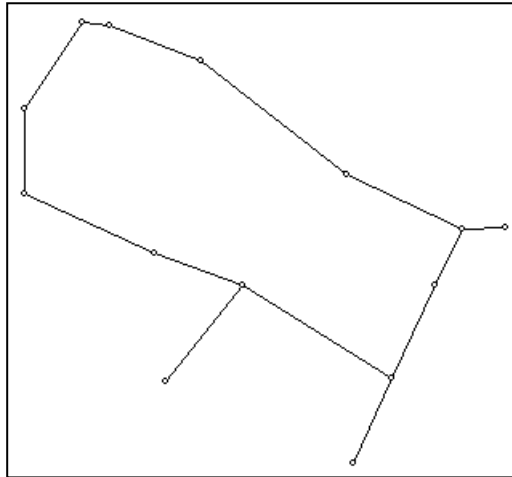
FOR – Pec

0.341892	0.000000
1.000000	0.177846
0.000000	0.224592



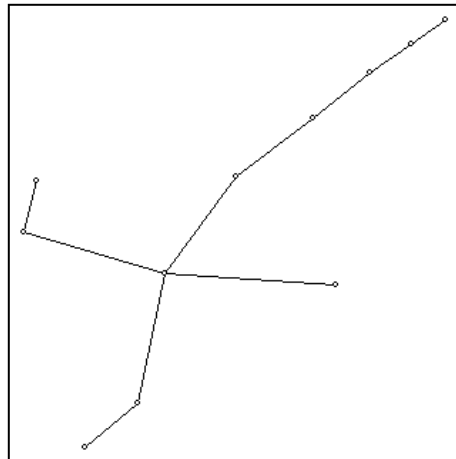
GEM – Blíženci

0.293572	0.169897
0.683801	0.000000
1.000000	0.489600
0.765575	0.175243
0.853922	0.367397
0.911319	0.483750
0.670995	0.597647
0.367089	0.835766
0.178926	0.908945
0.122131	0.914643
0.000000	0.733637
0.000332	0.558848
0.270670	0.436508
0.453813	0.368710

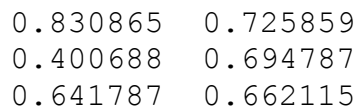


GRU – Žeriav

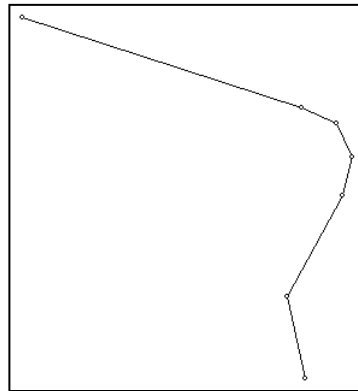
0.331360	0.404918
0.986899	1.000000
0.810150	0.875814
0.907619	0.942658
0.676845	0.766852
0.497072	0.633165
0.730580	0.377283
0.032724	0.621740
0.000000	0.501699
0.143687	0.000000
0.268657	0.102227



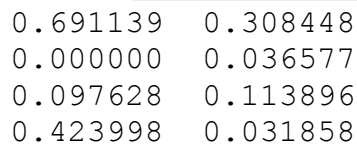
0.729906	0.485265
0.000000	0.197070
0.019073	0.262840
0.259172	0.221608
0.164312	0.266672
0.296171	0.454012
0.359471	0.459502
0.426878	0.405996
0.630146	0.305579
0.626194	0.000000
0.999243	0.147928
0.938308	0.211845
0.850697	0.508240
1.000000	0.915352
0.938006	0.949138
0.873930	0.831605
0.527906	0.939908
0.590965	0.674211



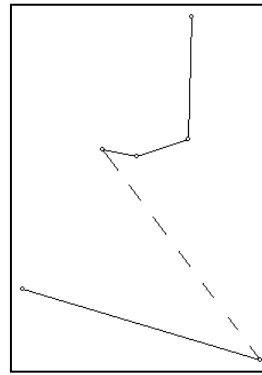
0.889042	0.504978
0.000000	1.000000
0.776404	0.748287
0.873285	0.703353
0.915338	0.610708
0.784359	0.000000
0.736349	0.223779



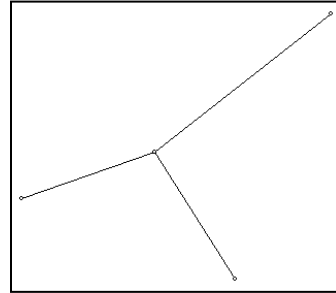
0.555218	0.257030
0.971844	0.540650
1.000000	0.526327
0.998141	0.495308
0.984603	0.498128
0.945528	0.538669
0.886416	0.498075
0.801248	0.459693
0.839559	0.350093
0.754356	0.269059
0.635758	0.246324
0.070230	0.106316
0.369444	0.000000



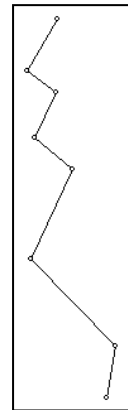
```
0.333750    0.590486
0.000000    0.203518
0.694761    0.000000
0.236628    0.610502
0.494474    1.000000
0.483554    0.643164
```



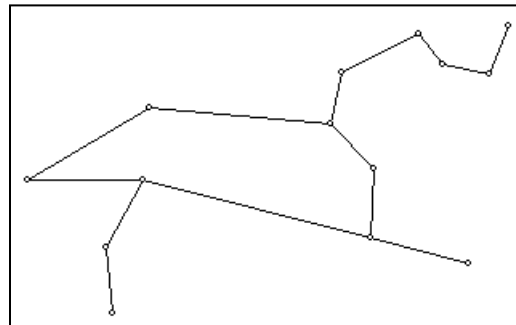
0.432577	0.408799
1.000000	0.856382
0.692654	0.000000
0.000000	0.257892



0.000000	0.862794
0.211023	0.000000
0.233419	0.135940
0.010191	0.364832
0.123048	0.603243
0.020552	0.683689
0.076754	0.806641
0.082483	1.000000

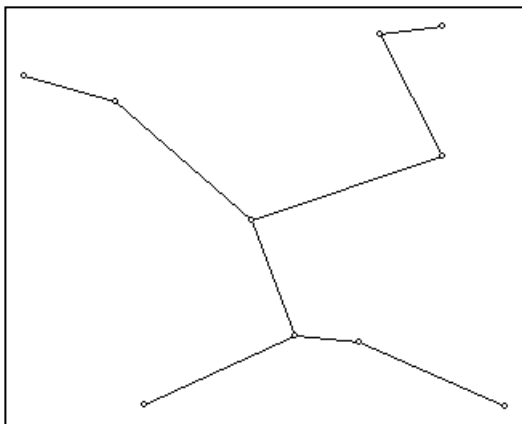


0.630931	0.390228
0.179925	0.000000
0.165158	0.133973
0.916673	0.101268
1.000000	0.595190
0.961971	0.496134
0.864521	0.513643
0.814070	0.578704
0.653543	0.497297
0.721790	0.298569
0.716186	0.155052
0.241989	0.273475
0.000000	0.274008
0.254060	0.425461



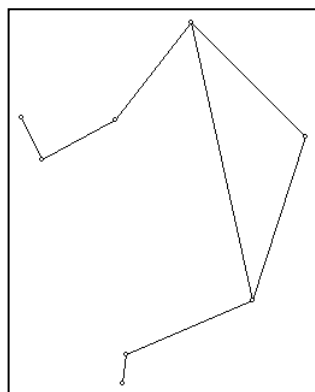
LEP – Zajac

0.476595	0.386419
0.698463	0.132371
0.251066	0.000842
1.000000	0.000000
0.563820	0.143522
0.871524	0.787220
0.743179	0.770648
0.871713	0.517129
0.000000	0.683806
0.190838	0.633244



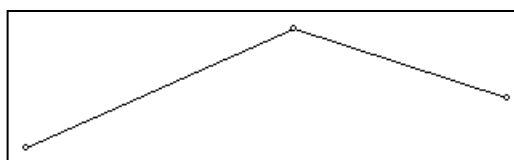
LIB – Váhy

0.788231	0.682165
0.000000	0.734709
0.058229	0.618431
0.261464	0.727416
0.471509	1.000000
0.282658	0.000000
0.291948	0.079395
0.640377	0.228998



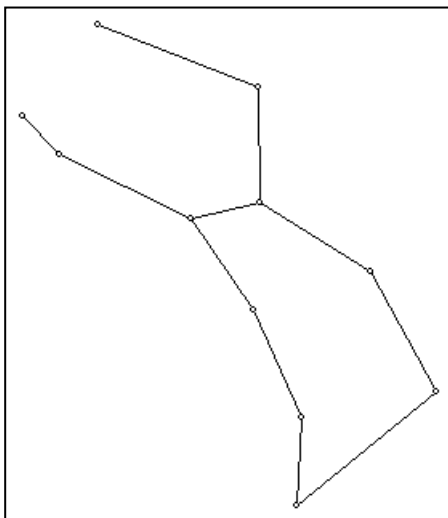
LMI – Malý lev

0.557052	0.245248
1.000000	0.103075
0.000000	0.000000



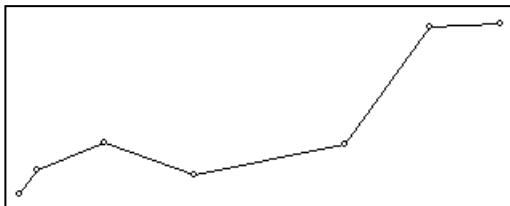
LUP – Vik

0.495485	0.627685
0.724623	0.483444
0.861322	0.236066
0.572321	0.000000
0.581161	0.182624
0.482758	0.404701
0.000000	0.807721
0.079002	0.728636
0.352650	0.596419
0.157087	1.000000
0.490489	0.868958

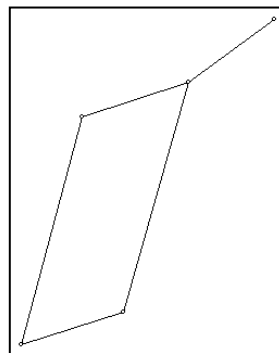


LYN – Rys

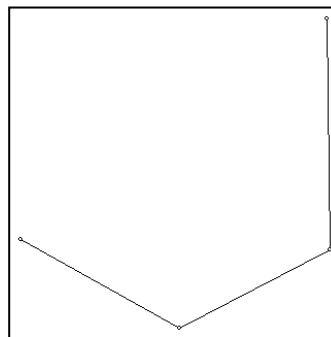
1.000000	0.351384
0.854095	0.343836
0.678937	0.101996
0.364159	0.037210
0.179276	0.104512
0.039073	0.047262
0.000000	0.000000

**LYR – Lýra**

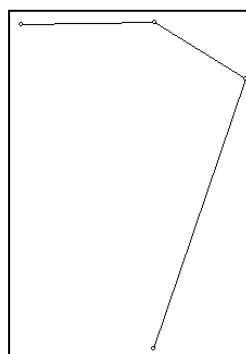
0.776922	1.000000
0.515614	0.803909
0.187239	0.699048
0.000000	0.000000
0.316249	0.099130

**MEN – Stolový vrch**

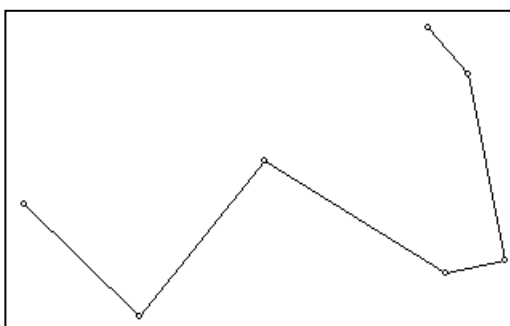
0.513944	0.000000
0.990454	0.999394
1.000000	0.252071
0.000000	0.285465

**MIC – Mikroskop**

0.691990	0.826217
0.411458	1.000000
0.000000	0.992048
0.408445	0.000000

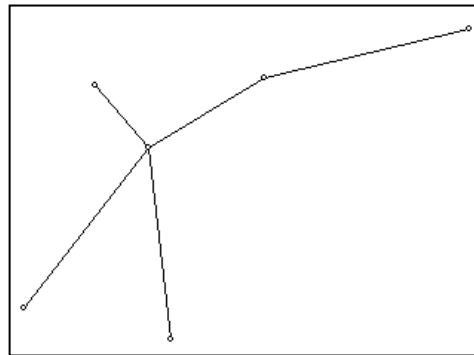
**MON – Jednorožec**

0.500163	0.321582
0.000000	0.232488
0.242367	0.000000
0.842954	0.599853
0.924376	0.502863
1.000000	0.115143
0.878737	0.088784



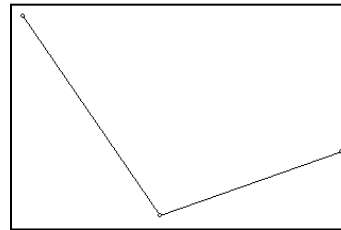
MUS – Mucha

0.281463	0.426676
1.000000	0.694138
0.543007	0.584370
0.332870	0.000000
0.000000	0.068902
0.160993	0.568927



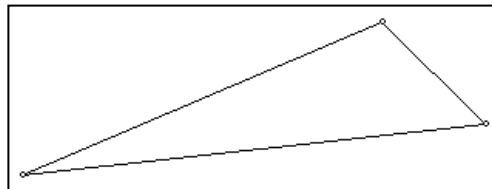
NOR – Pravítko

0.432293	0.000000
1.000000	0.197016
0.000000	0.622916



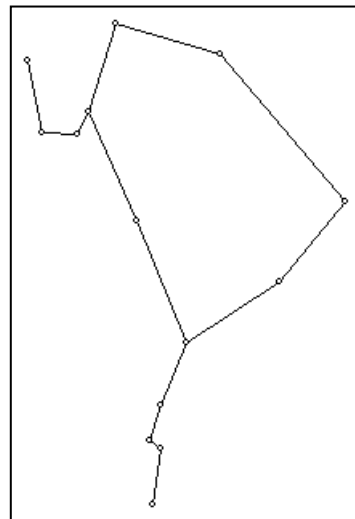
OCT – Oktant

0.000000	0.775145
0.222957	1.000000
0.332664	0.000000



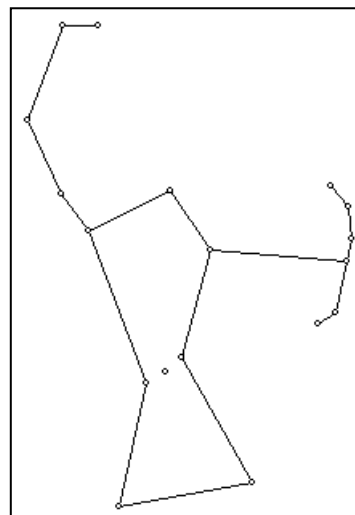
OPH – Hadonos

0.524103	0.463332
0.262862	0.000000
0.279770	0.113493
0.254587	0.131730
0.278030	0.205650
0.331322	0.336364
0.228447	0.589907
0.000000	0.921239
0.030991	0.770238
0.103492	0.769794
0.129893	0.814635
0.186642	1.000000
0.401460	0.935212
0.661571	0.628172



ORI – Orion

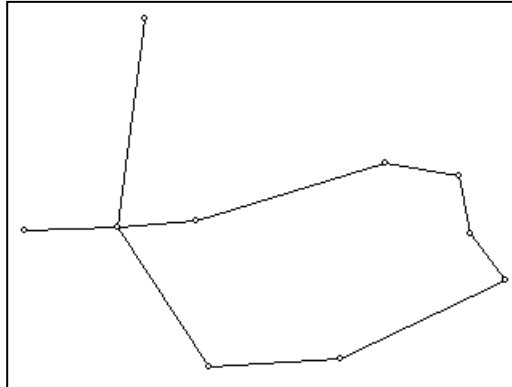
0.380417	0.532938
0.468976	0.047001
0.192322	0.000000
0.248589	0.254076
0.287028	0.278918
0.322304	0.308930
0.604282	0.378061
0.640168	0.403262
0.664401	0.509945
0.674991	0.555735



0.667277	0.621450
0.631106	0.663595
0.297270	0.654090
0.129649	0.570211
0.071694	0.647108
0.000000	0.802109
0.074409	0.996865
0.149351	1.000000

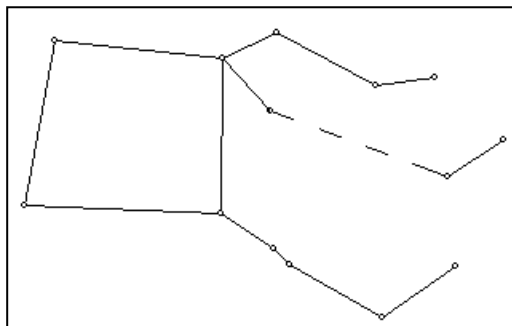
PAV – Páv

0.357408	0.301849
0.253155	0.721463
0.000000	0.282630
0.193666	0.289246
0.384241	0.000000
0.657039	0.014169
1.000000	0.177430
0.929643	0.274504
0.903902	0.395846
0.751416	0.420869



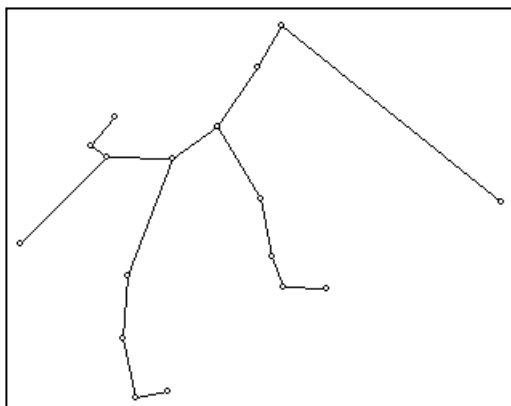
PEG – Pegas

0.410711	0.215570
1.000000	0.367148
0.884165	0.291771
0.516041	0.427067
0.857139	0.498500
0.736640	0.480793
0.529201	0.591694
0.416185	0.537973
0.000000	0.231358
0.901320	0.104434
0.749742	0.000000
0.554948	0.107403
0.522013	0.140626
0.064444	0.575205



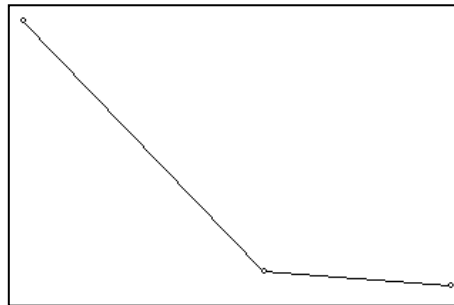
PER – Perzeus

0.316720	0.495086
0.307362	0.010836
0.241442	0.000000
0.213960	0.120985
0.226332	0.251855
0.000000	0.317073
0.197525	0.580798
0.149365	0.523251
0.180025	0.498670
1.000000	0.405830
0.546195	0.770384



0.691190	0.583095
0.768955	0.239825
0.961761	0.582008
1.000000	0.720258
0.467901	0.000000
0.283061	0.081001
0.047083	0.336267
0.000000	0.616396
0.219031	0.493602
0.538055	0.748328

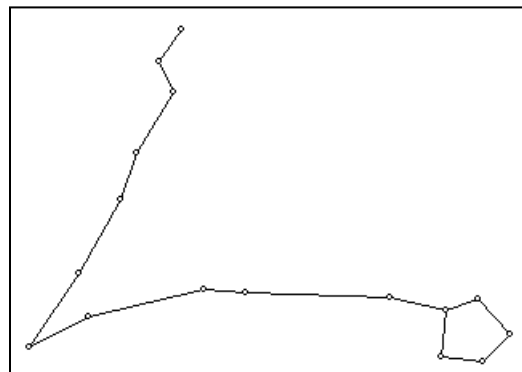
```
0.586920  0.561418
0.621316  1.000000
0.000000  0.000000
```



0.369281	0.078891
0.684356	0.028039
1.000000	0.000000
0.976930	0.142140
0.616568	0.372037
0.236415	0.422088
0.000000	0.245520
0.082312	0.038203



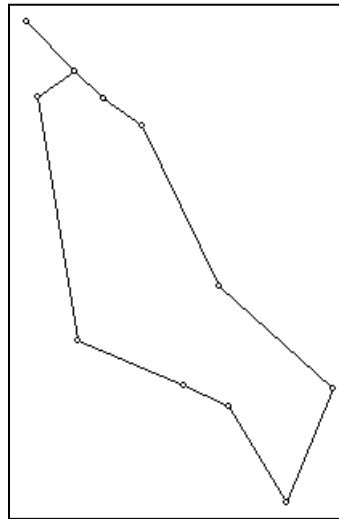
0.364269	0.148238
0.317135	0.689073
0.272648	0.623302
0.302916	0.559373
0.224499	0.430667
0.192924	0.335536
0.104155	0.183165
0.000000	0.027179
0.126262	0.091102
0.452350	0.141126



0.753330	0.130318		
0.868375	0.104751		
0.936452	0.127300	1.000000	0.054035
0.945779	0.000000	0.858306	0.008359

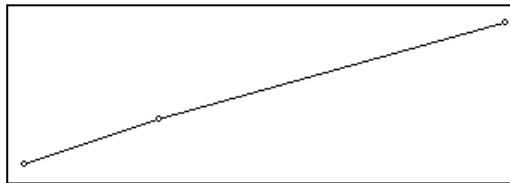
PUP – Korma

0.401022	0.447416
0.636986	0.234620
0.543285	0.000000
0.422267	0.198661
0.328441	0.241876
0.109314	0.333775
0.024771	0.841625
0.000000	1.000000
0.100387	0.896425
0.161073	0.838246
0.241567	0.781235



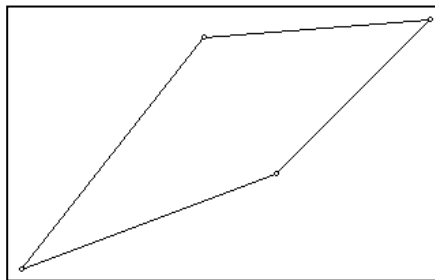
PYX – Kompas

0.202891	0.277300
0.296636	0.000000
0.000000	1.000000



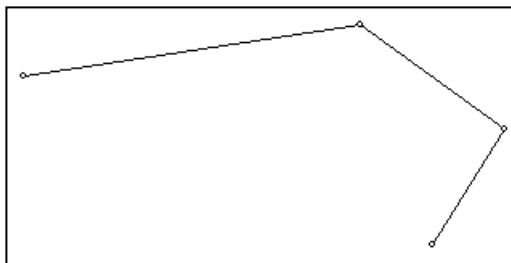
RET – Sieť

0.046145	0.444666
0.612045	0.000000
0.376708	0.622838
0.000000	1.000000



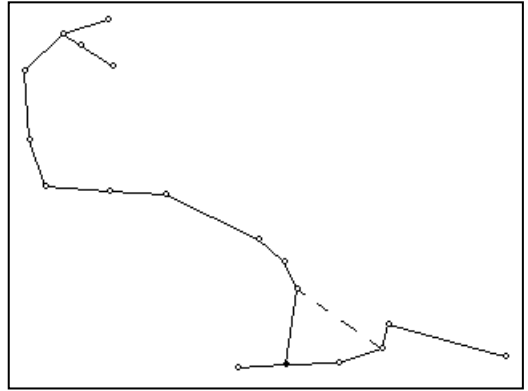
SCL – Sochár

0.702778	0.455467
0.000000	0.346728
0.850589	0.000000
1.000000	0.239619



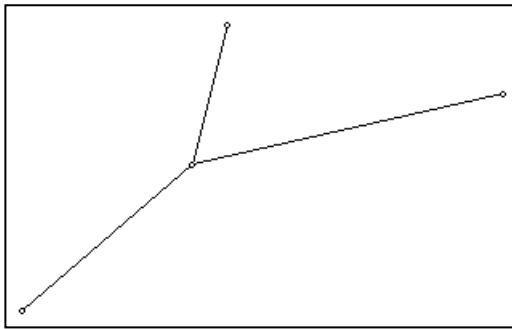
SCO – Škorpión

0.457981	0.483980
0.098405	0.183087
0.055306	0.116602
0.000000	0.170927
0.032151	0.079178
0.107527	0.000000
0.250263	0.007427
0.349002	0.040106
0.358701	0.173364
0.364893	0.290874
0.700992	1.000000
0.635546	0.754818
0.725280	0.441621
0.716122	0.651033
0.562459	0.565513



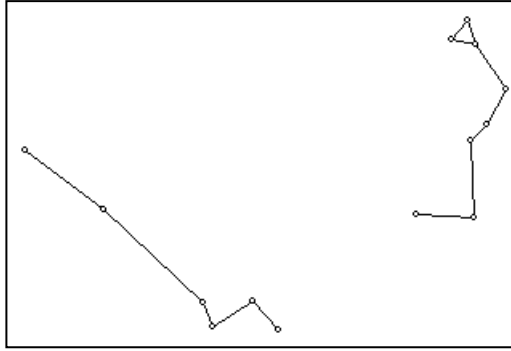
SCT – Štít

```
0.304287    0.643956
0.452509    0.000000
0.595004    0.573134
0.000000    1.000000
```



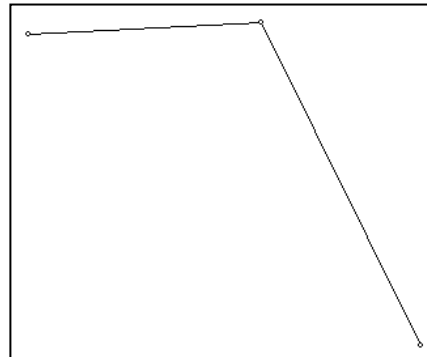
SER – Had

0.527396	0.000000
0.000000	0.370755
0.166423	0.248394
0.371195	0.056151
0.391827	0.004382
0.474735	0.059040
0.920800	0.641928
0.889728	0.601813
0.938371	0.592963
1.000000	0.497848
0.960149	0.424879
0.929993	0.390698
0.936338	0.233109
0.814189	0.237886



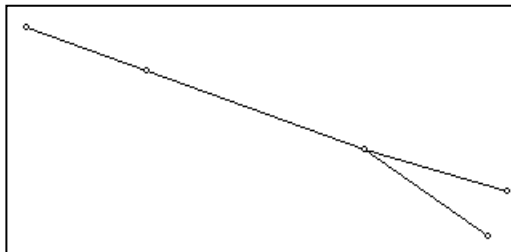
SEX – Sextant

0.593917	0.820341
0.000000	0.791754
1.000000	0.000000



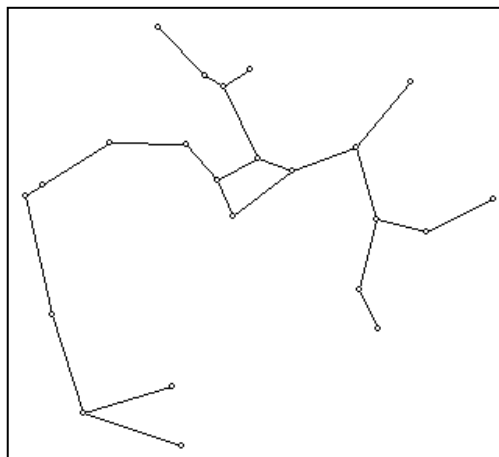
SGE – Šíp

0.706629	0.176788
0.000000	0.431182
0.252196	0.341351
1.000000	0.090719
0.963177	0.000000



SGR – Strelec

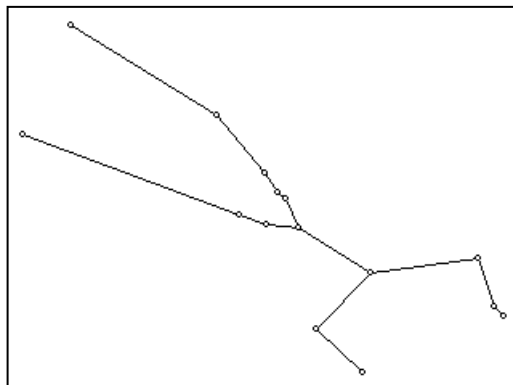
0.499231	0.610846
0.333858	0.000000
0.315232	0.124748
0.124304	0.066985
0.058442	0.279479
0.000000	0.530578
0.039049	0.553838
0.181945	0.646204
0.343749	0.642885
0.411569	0.563463
0.445142	0.489452
0.753958	0.248180
0.716404	0.330779
1.000000	0.525766
0.858428	0.453380
0.750629	0.483178
0.707989	0.634743
0.286551	0.891264
0.482817	0.802320



0.826162	0.775664
0.571809	0.586408
0.384425	0.788351
0.425140	0.765047

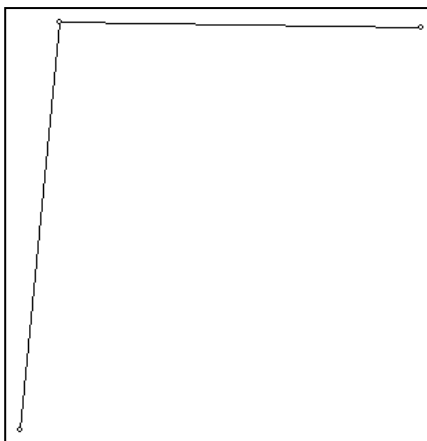
TAU – Býk

0.451516	0.326277
0.000000	0.491119
0.709308	0.000000
0.611157	0.087698
1.000000	0.114247
0.981357	0.134684
0.948010	0.233797
0.723634	0.204810
0.103200	0.718522
0.405112	0.531350
0.506235	0.411693
0.530283	0.372292
0.549735	0.359875
0.574623	0.299469
0.506864	0.306416



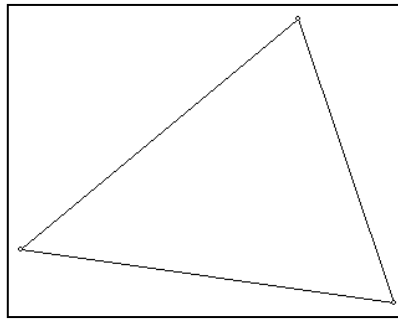
TEL – Ďalekohľad

0.097765	1.000000
0.000000	0.000000
0.981310	0.983429



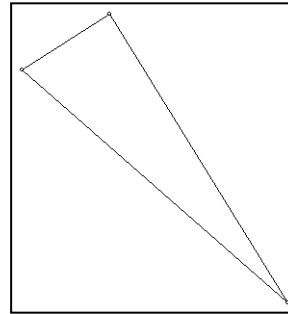
TRA – Južný trojuholník

0.000000	0.141297
1.000000	0.000000
0.745990	0.762766



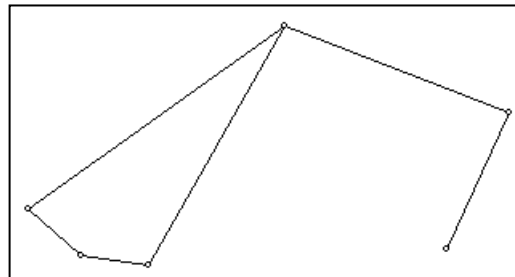
TRI – Trojuholník

0.921175	0.000000
0.303664	1.000000
0.000000	0.805977



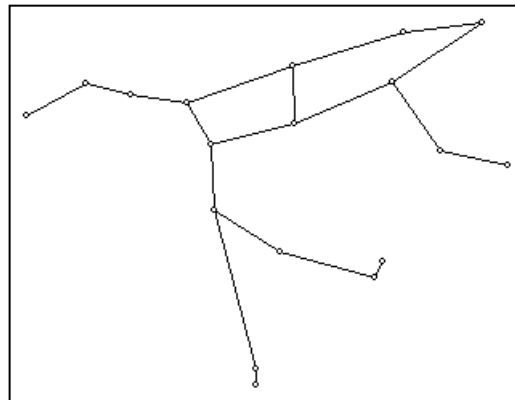
TUC – Tukan

0.533697	0.494950
0.873094	0.031107
1.000000	0.313667
0.252183	0.000000
0.110387	0.017567
0.000000	0.116028



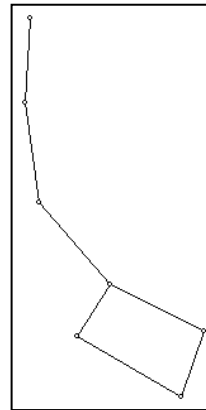
UMA – Veľký voz

0.558441	0.541847		
0.479767	0.000000		
0.479842	0.032019		
0.742443	0.255298		
0.724913	0.221229		
0.527003	0.275273		
0.391727	0.361633		
1.000000	0.454604		
0.862457	0.485533		
0.000000	0.558345		
0.126214	0.624352		
0.217566	0.602937		
0.386145	0.497555	0.761113	0.628403
0.947501	0.750936	0.783664	0.730000
0.553404	0.662977	0.336108	0.586510



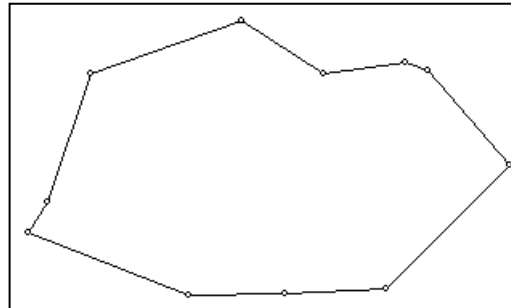
UMI – Malý voz

0.039093	0.510816
0.015316	1.000000
0.000000	0.774531
0.223800	0.293925
0.138965	0.158538
0.470170	0.171298
0.410137	0.000000



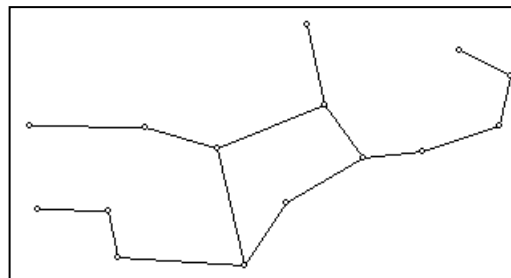
VEL – Plachty

0.613540	0.457140
0.443635	0.568229
0.132725	0.459886
0.041915	0.191232
0.000000	0.128710
0.336587	0.000000
0.533834	0.001954
0.745842	0.010608
1.000000	0.268774
0.831697	0.464943
0.784292	0.481978



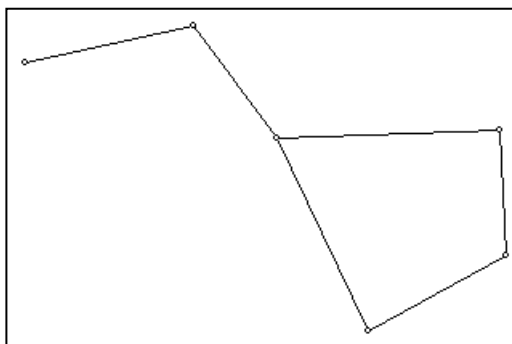
VIR – Panna

0.533533	0.128351		
0.018955	0.115476		
0.163541	0.112518		
0.184300	0.015337		
0.448257	0.000000		
0.000000	0.286687		
0.241028	0.286531		
0.392495	0.240152		
0.577062	0.499946		
0.615274	0.330936	0.894032	0.445895
1.000000	0.393194	0.976868	0.287161
0.817028	0.236372	0.694378	0.220576



VOL – Lietajúca ryba

0.525030	0.396796
0.350423	0.631703
0.000000	0.553720
0.714454	0.000000
1.000000	0.156361
0.987324	0.413366



VUL – Líška

0.659711	0.378166
1.000000	0.000000
0.000000	0.324823

