

VAJA 8: PROSTORSKI KOORDINATNI SISTEMI – REŠITVE NALOG

2024/2025

Naloga 1

točka	φ [°]	λ [°]	R [m]	h [m]
P_1	45,6102735	15,4724808	6371650,98	650,98
P_2	15,2322527	141,2459470	6371226,76	226,76
P_3	22,4122595	-41,3588596	6371196,70	196,70
P_4	82,6425359	-119,2130192	6371534,61	534,61
P_5	-68,8204275	59,2287683	6371454,68	454,68
P_6	-42,7121690	114,1966093	6371752,92	752,92
P_7	-12,6407481	-21,3398064	6371881,48	881,48
P_8	-19,4530282	-145,3628820	6371567,40	567,40

Naloga 2

točka	X [m]	Y [m]	Z [m]
P_1	4288126,525	1215711,737	4552324,338
P_2	-3921137,639	745783,956	-4965695,007
P_3	-2019359,769	-6009670,062	633952,841
P_4	-2511221,720	-3181108,936	-4915963,136

Naloga 3

V obravnavanem primeru je pot krajša, če najprej potujemo po poldnevniku in nato po vzporedniku.

$$d_{\text{poldnevnik-vzporednik}} = 1674 \text{ km}$$

$$d_{\text{vzporednik-poldnevnik}} = 1749 \text{ km}$$

$$\Delta = 75 \text{ km}$$