

GEODETSKI RAČUNI – VAJE
VAJA 4: SLEPI POLIGON

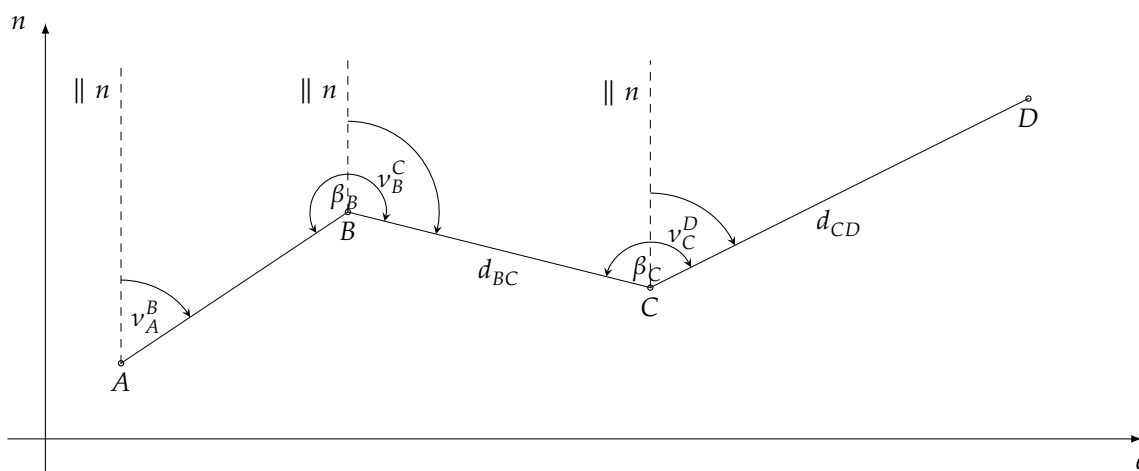
2024/2025

SLEPI POLIGON

dano: $A(e_A, n_A), B(e_B, n_B)$

merjeno: $\beta_B, d_{BC}, \beta_C, d_{CD}$

iščemo: $C(e_C, n_C), D(e_D, n_D)$



Izračun koordinat točke C:

$$i) \quad v_B^C = v_A^B + \beta_B - 180^\circ$$

$$ii) \quad \Delta e_B^C = d_{BC} \sin v_B^C \qquad \Delta n_B^C = d_{BC} \cos v_B^C$$

$$iii) \quad e_C = e_B + \Delta e_B^C \qquad n_C = n_B + \Delta n_B^C$$

Izračun koordinat točke D:

$$i) \quad v_C^D = v_B^C + \beta_C - 180^\circ$$

$$ii) \quad \Delta e_C^D = d_{CD} \sin v_C^D \qquad \Delta n_C^D = d_{CD} \cos v_C^D$$

$$iii) \quad e_D = e_C + \Delta e_C^D \qquad n_D = n_C + \Delta n_C^D$$

V primeru, da je vrednost izračunanega smernega kota:

- $v < 0^\circ \rightarrow v = v + 360^\circ$,
- $v > 360^\circ \rightarrow v = v - 360^\circ$.