

VAJA 2: RAVNINSKA TRIGONOMETRIJA – REŠITVE NALOG

2024/2025

Naloga 1

$$a = 144,16 \text{ m}$$

$$b = 95,95 \text{ m}$$

$$c = 173,16 \text{ m}$$

$$\alpha = 33^\circ 38' 21,7''$$

$$\beta = 56^\circ 21' 38,3''$$

$$\gamma = 90^\circ 0' 0,0''$$

Naloga 2

$$a = 15,095 \text{ m}$$

$$b = 19,372 \text{ m}$$

$$c = 25,451 \text{ m}$$

$$\alpha = 36^\circ 15' 22''$$

$$\beta = 49^\circ 22' 15''$$

$$\gamma = 94^\circ 22' 23''$$

Naloga 3

$$a = 19,651 \text{ m}$$

$$b = 19,994 \text{ m}$$

$$c = 22,832 \text{ m}$$

$$\hat{\alpha} = 54^\circ 8' 11''$$

$$\hat{\beta} = 55^\circ 32' 36''$$

$$\hat{\gamma} = 70^\circ 19' 13''$$

Naloga 4

$$a = 35,505 \text{ m}$$

$$b = 81,731 \text{ m}$$

$$c = 78,513 \text{ m}$$

$$\alpha = 25^\circ 30' 2''$$

$$\beta = 82^\circ 19' 18''$$

$$\gamma = 72^\circ 10' 40''$$

Naloga 5

$$a = 22,374 \text{ m}$$

$$b = 17,199 \text{ m}$$

$$c = 29,252 \text{ m}$$

$$\alpha = 49^\circ 41' 40''$$

$$\beta = 35^\circ 53' 21''$$

$$\gamma = 94^\circ 24' 59''$$

Naloga 6

trikotnik 1:

$$a = 17,199 \text{ m}$$

$$b = 22,374 \text{ m}$$

$$c_1 = 16,635 \text{ m}$$

$$\alpha = 49^\circ 41' 40''$$

$$\beta_1 = 82^\circ 46' 39''$$

$$\gamma_1 = 47^\circ 31' 41''$$

trikotnik 2:

$$a = 17,199 \text{ m}$$

$$b = 22,374 \text{ m}$$

$$c_2 = 12,311 \text{ m}$$

$$\alpha = 49^\circ 41' 40''$$

$$\beta_2 = 97^\circ 13' 21''$$

$$\gamma_2 = 33^\circ 4' 59''$$

Naloga 7

$$a = 23,53 \text{ m}$$

$$b = 19,74 \text{ m}$$

$$c = 18,63 \text{ m}$$

$$\alpha = 75^\circ 35' 11''$$

$$\beta = 54^\circ 20' 35''$$

$$\gamma = 50^\circ 4' 14''$$

$$v_a = 7,57 \text{ m}$$

$$v_b = 9,02 \text{ m}$$

$$v_c = 9,56 \text{ m}$$

$$S = 178,1 \text{ m}^2$$

Naloga 8

$$h = 67,705 \text{ m}$$

Naloga 9

$$h = 22,067 \text{ m}$$