

Rješenja zadataka 6.3

Zadatak 1. Izračunaj površinu trokuta $\triangle ABC$ ako je zadano:

1) $a = 11.4 \text{ cm}$, $b = 15 \text{ cm}$, $\gamma = 47^\circ 15'$;

2) $b = 5 \text{ cm}$, $c = 7 \text{ cm}$, $\alpha = 95^\circ$;

3) $a = 22.5 \text{ cm}$, $c = 30 \text{ cm}$, $\beta = 30^\circ$.

Rješenje. 1)

$$a = 11.4\text{cm}$$

$$b = 15\text{cm}$$

$$\gamma = 47^\circ 15'$$

$$P = ?$$

$$P = \frac{a \cdot b \cdot \sin \gamma}{2} = 62.78\text{cm}^2.$$

2)

$$b = 5\text{cm}$$

$$c = 7\text{cm}$$

$$\alpha = 95^\circ$$

$$P = ?$$

$$P = \frac{b \cdot c \cdot \sin \alpha}{2} = 17.43\text{cm}^2.$$

3)

$$a = 22.5\text{cm}$$

$$c = 30\text{cm}$$

$$\beta = 30^\circ$$

$$P = ?$$

$$P = \frac{a \cdot c \cdot \sin \beta}{2} = 168.75\text{cm}^2.$$