

Zadatak 26. Ako je $\cos t = 0.28$, $t \in \langle -4\pi, -\frac{7\pi}{2} \rangle$, koliko je $\operatorname{tg}(-t)$?

Rješenje. $\cos t = 0.28 = \frac{28}{100} = \frac{7}{25}$,

$$t \in \langle -4\pi, -\frac{7\pi}{2} \rangle \implies t \in \langle 0, \frac{\pi}{2} \rangle \text{ (I. kvadrant } \sin x, \cos x, \operatorname{tg} x > 0)$$

$$\sin t = \sqrt{1 - \cos^2 t} = \sqrt{1 - \frac{49}{625}} = \sqrt{\frac{576}{625}} = \frac{24}{25}$$

$$\operatorname{tg} t = \frac{\sin t}{\cos t} = \frac{24}{7}$$

$$\operatorname{tg}(-t) = -\operatorname{tg} t = -\frac{24}{7}.$$