

Zadatak 27. Ako je $\operatorname{tg} t = \frac{7}{24}$, $t \in \left\langle -\frac{7\pi}{2}, -3\pi \right\rangle$, koliko je $\sin(-t)$?

Rješenje. $t \in \left\langle -\frac{7\pi}{2}, -3\pi \right\rangle \implies t \in \left\langle \frac{\pi}{2}, \pi \right\rangle$ (II. kvadrant $\sin t > 0$)

$$\sin t = \frac{\operatorname{tg} t}{\sqrt{1 + \operatorname{tg}^2 t}} = \frac{\frac{7}{24}}{\sqrt{1 + \frac{49}{576}}} = \frac{\frac{7}{24}}{\sqrt{\frac{625}{576}}} = \frac{\frac{7}{24}}{\frac{25}{24}} = \frac{7}{25}$$

$$\sin(-t) = -\sin t = -\frac{7}{25}.$$