

Zadatak 8. Koliko je:

1) $\operatorname{tg}\left(\arcsin\left(-\frac{1}{2}\right) + \arcsin(-1)\right)$;

2) $\operatorname{ctg}\left(\arcsin\frac{\sqrt{3}}{2} + \arcsin\frac{\sqrt{3}}{2}\right)$?

Rješenje. 1) $\operatorname{tg}\left(\arcsin\left(-\frac{1}{2}\right) + \arcsin(-1)\right) = \operatorname{tg}\left(-\frac{\pi}{6} - \frac{\pi}{2}\right) = \operatorname{tg}\left(-\frac{2\pi}{3}\right) = \sqrt{3}$;

2) $\operatorname{ctg}\left(\arcsin\frac{\sqrt{3}}{2} + \arcsin\frac{\sqrt{3}}{2}\right) = \operatorname{ctg}\left(\frac{\pi}{3} + \frac{\pi}{6}\right) = \operatorname{ctg}\frac{\pi}{2} = 0$.