

**Zadatak 5.** Odredi u stupnjevima mjeru kuta zadanu u radijanima:

$$1) \frac{\pi}{4}, \frac{\pi}{5}, \frac{3\pi}{7}, \frac{5\pi}{8}, \frac{2\pi}{9};$$

$$2) \frac{4\pi}{3}, \frac{7\pi}{3}, \frac{11\pi}{3}, \frac{14\pi}{3}, \frac{22\pi}{3};$$

$$3) \pi, 5, 3\pi, 0.35, 4.28.$$

*Rješenje.*

$$\varphi_{\text{rad.}} = \varphi \cdot \frac{180^\circ}{\pi};$$

$$1) \varphi_1 = \frac{\pi}{4} \cdot \frac{180^\circ}{\pi} = 36^\circ, \quad \varphi_2 = \frac{\pi}{5} \cdot \frac{180^\circ}{\pi} = 45^\circ,$$

$$\varphi_3 = \frac{3\pi}{7} \cdot \frac{180^\circ}{\pi} = 77.1492^\circ = 77^\circ 8.574' = 77^\circ 8' = 77^\circ 8' 34'',$$

$$\varphi_4 = \frac{5\pi}{8} \cdot \frac{180^\circ}{\pi} = 112.5^\circ = 112^\circ 30', \quad \varphi_5 = \frac{2\pi}{9} \cdot \frac{180^\circ}{\pi} = 40^\circ.$$

$$2) \varphi_1 = \frac{4\pi}{3} \cdot \frac{180^\circ}{\pi} = 240^\circ, \quad \varphi_2 = \frac{7\pi}{3} \cdot \frac{180^\circ}{\pi} = 420^\circ,$$

$$\varphi_3 = \frac{11\pi}{3} \cdot \frac{180^\circ}{\pi} = 660^\circ, \quad \varphi_4 = \frac{14\pi}{3} \cdot \frac{180^\circ}{\pi} = 840^\circ,$$

$$\varphi_5 = \frac{22\pi}{3} \cdot \frac{180^\circ}{\pi} = 1320^\circ.$$

$$3) \varphi_1 = \pi \cdot \frac{180^\circ}{\pi} = 180^\circ,$$

$$\varphi_2 = 5 \cdot \frac{180^\circ}{\pi} = 286.4788976^\circ = 286^\circ 28' 44'',$$

$$\varphi_3 = 3\pi \cdot \frac{180^\circ}{\pi} = 540^\circ,$$

$$\varphi_4 = 0.35 \cdot \frac{180^\circ}{\pi} = 20.05352283^\circ = 20^\circ 3' 13'',$$

$$\varphi_5 = 4.28 \cdot \frac{180^\circ}{\pi} = 245.2259363^\circ = 245^\circ 13' 33''.$$