

Zadatak 10. Odredi glavnu mjeru kuta α ako je:

- | | |
|------------------------------|------------------------------|
| 1) $\alpha = 555^\circ$; | 2) $\alpha = 2\,000^\circ$; |
| 3) $\alpha = 7\,770^\circ$; | 4) $\alpha = 678^\circ$; |
| 5) $\alpha = 1\,987^\circ$; | 6) $\alpha = 3\,600^\circ$. |

Rješenje.

$$\begin{aligned}
 1) \quad \alpha = 555^\circ \quad \alpha' &= \alpha - \left\lfloor \frac{\alpha}{360^\circ} \right\rfloor \cdot 360^\circ \\
 \alpha' &= 555^\circ - \left\lfloor \frac{555^\circ}{360^\circ} \right\rfloor \cdot 360^\circ \\
 \alpha' &= 555^\circ - [1.542] \cdot 360^\circ \\
 \alpha' &= 555^\circ - 1 \cdot 360^\circ \\
 \alpha' &= 195^\circ; \quad \{195^\circ + k \cdot 360^\circ, k \in \mathbf{Z}\}
 \end{aligned}$$

$$\begin{aligned}
 2) \quad \alpha = 2000^\circ \quad \alpha' &= \alpha - \left\lfloor \frac{\alpha}{360^\circ} \right\rfloor \cdot 360^\circ \\
 \alpha' &= 2000^\circ - \left\lfloor \frac{2000^\circ}{360^\circ} \right\rfloor \cdot 360^\circ \\
 \alpha' &= 2000^\circ - [5.5] \cdot 360^\circ \\
 \alpha' &= 2000^\circ - 5 \cdot 360^\circ \\
 \alpha' &= 2000^\circ - 1800^\circ \\
 \alpha' &= 200^\circ; \quad \{200^\circ + k \cdot 360^\circ, k \in \mathbf{Z}\}
 \end{aligned}$$

$$\begin{aligned}
 3) \quad \alpha = 7770^\circ \quad \alpha' &= \alpha - \left\lfloor \frac{\alpha}{360^\circ} \right\rfloor \cdot 360^\circ \\
 \alpha' &= 7770^\circ - \left\lfloor \frac{7770^\circ}{360^\circ} \right\rfloor \cdot 360^\circ \\
 \alpha' &= 7770^\circ - [21.5] \cdot 360^\circ \\
 \alpha' &= 7770^\circ - 21 \cdot 360^\circ \\
 \alpha' &= 7770^\circ - 7560^\circ \\
 \alpha' &= 210^\circ; \quad \{210^\circ + k \cdot 360^\circ, k \in \mathbf{Z}\}
 \end{aligned}$$

$$\begin{aligned}
 4) \quad \alpha = 678^\circ \quad \alpha' &= \alpha - \left\lfloor \frac{\alpha}{360^\circ} \right\rfloor \cdot 360^\circ \\
 \alpha' &= 678^\circ - \left\lfloor \frac{678^\circ}{360^\circ} \right\rfloor \cdot 360^\circ \\
 \alpha' &= 678^\circ - [1.88] \cdot 360^\circ \\
 \alpha' &= 678^\circ - 1 \cdot 360^\circ \\
 \alpha' &= 318^\circ; \quad \{318^\circ + k \cdot 360^\circ, k \in \mathbf{Z}\}
 \end{aligned}$$

$$\begin{aligned}5) \quad \alpha = 1987^\circ \quad \alpha' &= \alpha - \left\lfloor \frac{\alpha}{360^\circ} \right\rfloor \cdot 360^\circ \\ \alpha' &= 1987^\circ - \left\lfloor \frac{1987^\circ}{360^\circ} \right\rfloor \cdot 360^\circ \\ \alpha' &= 1987^\circ - [5.52] \cdot 360^\circ \\ \alpha' &= 1987^\circ - 5 \cdot 360^\circ \\ \alpha' &= 1987^\circ - 1800^\circ \\ \alpha' &= 187^\circ; \quad \{187^\circ + k \cdot 360^\circ, k \in \mathbf{Z}\}\end{aligned}$$

$$\begin{aligned}6) \quad \alpha = 3600^\circ \quad \alpha' &= \alpha - \left\lfloor \frac{\alpha}{360^\circ} \right\rfloor \cdot 360^\circ \\ \alpha' &= 3600^\circ - \left\lfloor \frac{3600^\circ}{360^\circ} \right\rfloor \cdot 360^\circ \\ \alpha' &= 3600^\circ - [10] \cdot 360^\circ \\ \alpha' &= 3600^\circ - 10 \cdot 360^\circ \\ \alpha' &= 3600^\circ - 3600^\circ \\ \alpha' &= 0^\circ; \quad \{0^\circ + k \cdot 360^\circ, k \in \mathbf{Z}\}\end{aligned}$$