

Zadatak 12. Odredi glavnu mjeru kuta α ako je:

- | | |
|-------------------------------------|--------------------------------------|
| 1) $\alpha = 555^\circ$; | 2) $\alpha = -1210^\circ$; |
| 3) $\alpha = 2\ 000^\circ$; | 4) $\alpha = 7\ 770^\circ$; |
| 5) $\alpha = -990^\circ 45' 15''$; | 6) $\alpha = -2121^\circ 21' 21''$. |

Rješenje.

$$1) \quad \alpha = 555^\circ \quad \alpha' = \alpha - \left\lfloor \frac{\alpha}{360^\circ} \right\rfloor \cdot 360^\circ$$

$$\alpha' = 555^\circ - \left\lfloor \frac{555^\circ}{360^\circ} \right\rfloor \cdot 360^\circ$$

$$\alpha' = 555^\circ - [1.54] \cdot 360^\circ$$

$$\alpha' = 555^\circ - 1 \cdot 360^\circ$$

$$\alpha' = 195^\circ;$$

$$2) \quad \alpha = -1210^\circ \quad \alpha' = \alpha - \left\lfloor \frac{\alpha}{360^\circ} \right\rfloor \cdot 360^\circ$$

$$\alpha' = -1210^\circ - \left\lfloor \frac{-1210^\circ}{360^\circ} \right\rfloor \cdot 360^\circ$$

$$\alpha' = -1210^\circ - [-3.36] \cdot 360^\circ$$

$$\alpha' = -1210^\circ - (-4) \cdot 360^\circ$$

$$\alpha' = -1210^\circ + 1080^\circ$$

$$\alpha' = 230^\circ;$$

$$3) \quad \alpha = 2\ 000^\circ \quad \alpha' = \alpha - \left\lfloor \frac{\alpha}{360^\circ} \right\rfloor \cdot 360^\circ$$

$$\alpha' = 2\ 000^\circ - \left\lfloor \frac{2\ 000^\circ}{360^\circ} \right\rfloor \cdot 360^\circ$$

$$\alpha' = 2\ 000^\circ - [5.55] \cdot 360^\circ$$

$$\alpha' = 2\ 000^\circ - 5 \cdot 360^\circ$$

$$\alpha' = 2\ 000^\circ - 1\ 800^\circ$$

$$\alpha' = 200^\circ;$$

$$4) \quad \alpha = 7\ 770^\circ \quad \alpha' = \alpha - \left\lfloor \frac{\alpha}{360^\circ} \right\rfloor \cdot 360^\circ$$

$$\alpha' = 7\ 770^\circ - \left\lfloor \frac{7\ 770^\circ}{360^\circ} \right\rfloor \cdot 360^\circ$$

$$\alpha' = 7\ 770^\circ - [21.39] \cdot 360^\circ$$

$$\alpha' = 7\ 770^\circ - 21 \cdot 360^\circ$$

$$\alpha' = 7\ 770^\circ - 7\ 560^\circ$$

$$\alpha' = 140^\circ;$$

5) $\alpha = -990^\circ 45' 15''$ $\alpha' = \alpha - \left\lfloor \frac{\alpha}{360^\circ} \right\rfloor \cdot 360^\circ$
 $\alpha' = -990^\circ 45' 15'' - \left\lfloor \frac{-990^\circ}{360^\circ} \right\rfloor \cdot 360^\circ$
 $\alpha' = -990^\circ 45' 15'' - [-2.75] \cdot 360^\circ$
 $\alpha' = -990^\circ 45' 15'' - (-3) \cdot 360^\circ$
 $\alpha' = -990^\circ 45' 15'' + 1080^\circ$
 $\alpha' = 1080^\circ - 990^\circ 45' 15''$
 $\alpha' = 1079^\circ 59' 60'' - 990^\circ 45' 15''$
 $\alpha' = 89^\circ 14' 45'';$

6) $\alpha = -2121^\circ 21' 21''$ $\alpha' = \alpha - \left\lfloor \frac{\alpha}{360^\circ} \right\rfloor \cdot 360^\circ$
 $\alpha' = -2121^\circ 21' 21'' - \left\lfloor \frac{-2121^\circ}{360^\circ} \right\rfloor \cdot 360^\circ$
 $\alpha' = -2121^\circ 21' 21'' - [-5.9] \cdot 360^\circ$
 $\alpha' = -2121^\circ 21' 21'' - (-6) \cdot 360^\circ$
 $\alpha' = -2121^\circ 21' 21'' + 2160^\circ$
 $\alpha' = 2160^\circ - 2121^\circ 21' 21''$
 $\alpha' = 2159^\circ 59' 60'' - 2121^\circ 21' 21''$
 $\alpha' = 38^\circ 38' 39''.$