

određivanje glavne mjere kuta  
kada je kut zadan u stupnjevima:

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

određivanje glavne mjere kuta  
kada je kut zadan u radijanima:

$$\alpha' = \alpha - \left\lfloor \alpha \cdot \frac{1}{2\pi} \right\rfloor \cdot 2\pi$$

Za svaki realni broj  $x$  sa  $\lfloor x \rfloor$  označavamo najveći cijeli broj manji ili jednak broju  $x$ .

To ustvari znači: "odredi prvi cijeli manji broj" !

Par primjera:

$$\lfloor 4,345 \rfloor = 4$$

$$\left\lfloor \frac{33}{15} \right\rfloor = \lfloor 2,2 \rfloor = 2$$

Obratite pažnju:

$$\lfloor -3,23 \rfloor = -4$$

"Prvi cijeli manji" od:  $(-3,23)$  je:  $(-4)$  !!!

$$\left\lfloor -\frac{23}{5} \right\rfloor = \lfloor -4,6 \rfloor = -5$$

1.

odredi glavnu mjeru kuta

$$\alpha = 2580^\circ$$

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

$$\begin{aligned} \alpha' &= 2580^\circ - \left\lfloor \frac{2580^\circ}{360} \right\rfloor \cdot 360^\circ = 2580^\circ - \lfloor 7,1667 \rfloor \cdot 360^\circ = && \rightarrow \lfloor 7,1667 \rfloor = 7 \\ &= 2580^\circ - 7 \cdot 360^\circ = \\ &= 2580^\circ - 2520^\circ = \\ &= 60^\circ \end{aligned}$$

2.

odredi glavnu mjeru kuta

$$\alpha = 1845^\circ$$

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

$$\begin{aligned} \alpha' &= 1845^\circ - \left\lfloor \frac{1845^\circ}{360} \right\rfloor \cdot 360^\circ = 1845^\circ - \lfloor 5,125 \rfloor \cdot 360^\circ = \\ &= 1845^\circ - 5 \cdot 360^\circ = \\ &= 1845^\circ - 1800^\circ = \\ &= 45^\circ \end{aligned}$$

3.

odredi glavnu mjeru kuta

$$\alpha = -2655^\circ$$

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

$$\begin{aligned} \alpha' &= -2655^\circ - \left\lfloor -\frac{2655^\circ}{360} \right\rfloor \cdot 360^\circ = -2655^\circ - \lfloor -7,375 \rfloor \cdot 360^\circ = \rightarrow \lfloor -7,375 \rfloor = (-8) \\ &= -2655^\circ - (-8) \cdot 360^\circ = \\ &= -2655^\circ + 2880^\circ = \\ &= 225^\circ \end{aligned}$$

pazi:  $\lfloor -7,375 \rfloor = (-8)$  jer je prvi "cijeli manji" broj od  $(-7,375) = (-8) !!$

4.

odredi glavnu mjeru kuta

$$\alpha = \frac{27\pi}{4}$$

$$\alpha' = \alpha - \left\lfloor \alpha \cdot \frac{1}{2\pi} \right\rfloor \cdot 2\pi$$

$$\begin{aligned} \alpha' &= \frac{27\pi}{4} - \left\lfloor \frac{27\pi}{4} \cdot \frac{1}{2\pi} \right\rfloor \cdot 2\pi = \frac{27\pi}{4} - \left\lfloor \frac{27\cancel{\pi}}{4} \cdot \frac{1}{2\cancel{\pi}} \right\rfloor \cdot 2\pi = \\ &= \frac{27\pi}{4} - \left\lfloor \frac{27\cancel{\pi}}{4} \cdot \frac{1}{2\cancel{\pi}} \right\rfloor \cdot 2\pi = \\ &= \frac{27\pi}{4} - \left\lfloor \frac{27}{8} \right\rfloor \cdot 2\pi = \\ &= \frac{27\pi}{4} - \lfloor 3,375 \rfloor \cdot 2\pi = \\ &= \frac{27\pi}{4} - 3 \cdot 2\pi = \frac{27\pi}{4} - 6\pi = \\ &= \frac{27\pi}{4} - \frac{24\pi}{4} = \\ &= \frac{3\pi}{4} \end{aligned}$$

5.

odredi glavnu mjeru kuta

$$\alpha = -\frac{21\pi}{4}$$

$$\alpha' = \alpha - \left[ \alpha \cdot \frac{1}{2\pi} \right] \cdot 2\pi$$

$$\begin{aligned} \alpha' &= -\frac{21\pi}{4} - \left[ -\frac{21\pi}{4} \cdot \frac{1}{2\pi} \right] \cdot 2\pi = -\frac{21\pi}{4} - \left[ -\frac{21\cancel{\pi}}{4} \cdot \frac{1}{2\cancel{\pi}} \right] \cdot 2\pi = \\ &= -\frac{21\pi}{4} - \left[ -\frac{21\cancel{\pi}}{4} \cdot \frac{1}{2\cancel{\pi}} \right] \cdot 2\pi = \\ &= -\frac{21\pi}{4} - \left[ -\frac{21}{8} \right] \cdot 2\pi = \\ &= -\frac{21\pi}{4} - [-2,625] \cdot 2\pi = \\ &= -\frac{21\pi}{4} - (-3) \cdot 2\pi = -\frac{21\pi}{4} + 6\pi = \\ &= -\frac{21\pi}{4} + \frac{24\pi}{4} = \\ &= \frac{3\pi}{4} \end{aligned}$$

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