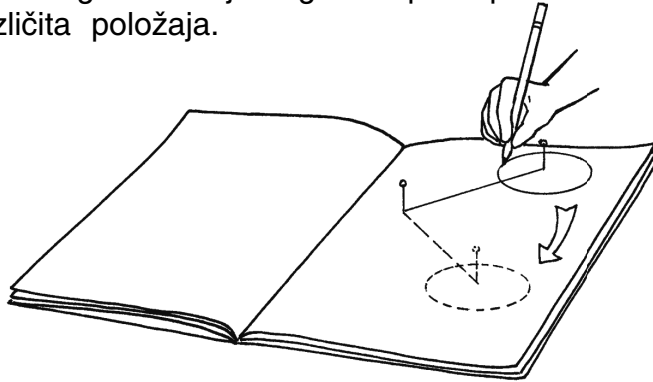
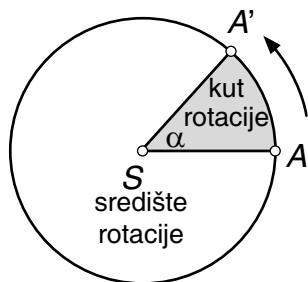


## 21. ROTACIJA

Iz zadnjih stranica udžbenika izreži krug. Uzmi dvije pribadače i konac. Zaveži konac za pribadače. Jednu pribadaču zabodi u bilježnicu, a drugu u središte kuga. Rotiraj krug oko prve probadače. Olovkom opiši krug u dva različita položaja.



- ▶ **rotacija** je vrtnja ravnine oko neke točke
- ▶ **rotacija** je zadana središtem  $S$  i kutom  $\alpha$

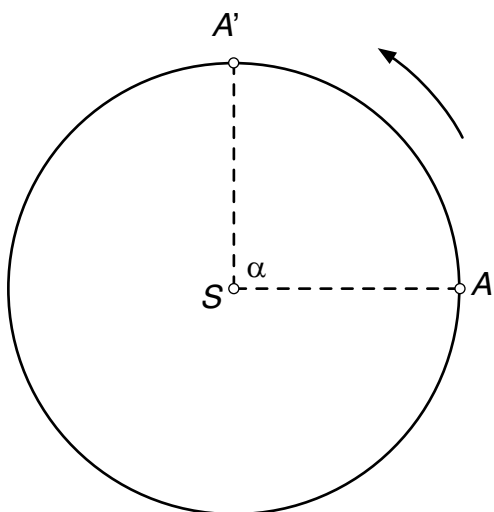


Rotacija oko središta  $S$  za kut  $\alpha$  točku  $A$  preslikava je u točku  $A'$ .

195.

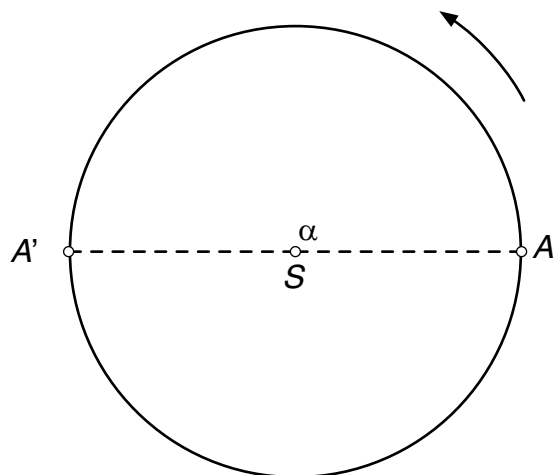
Kutomjerom izmjeri kut rotacije  $\alpha$ . Napiši mjeru izmjenog kuta.

a)



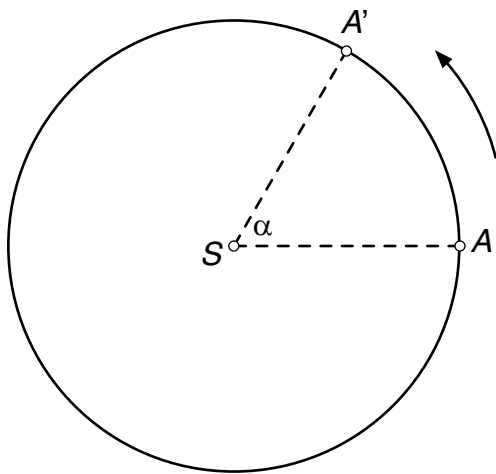
$\alpha =$  \_\_\_\_\_

b)



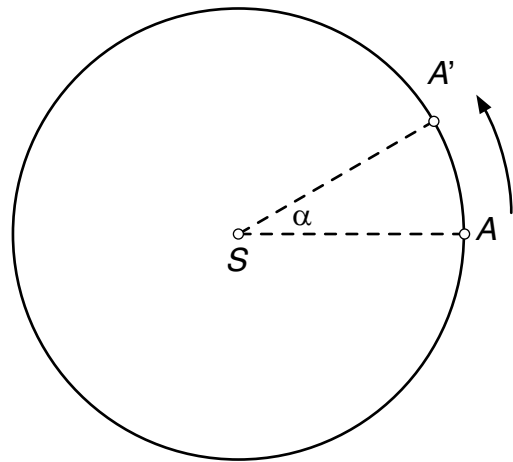
$\alpha =$  \_\_\_\_\_

c)



$\alpha = \underline{\hspace{2cm}}$

d)

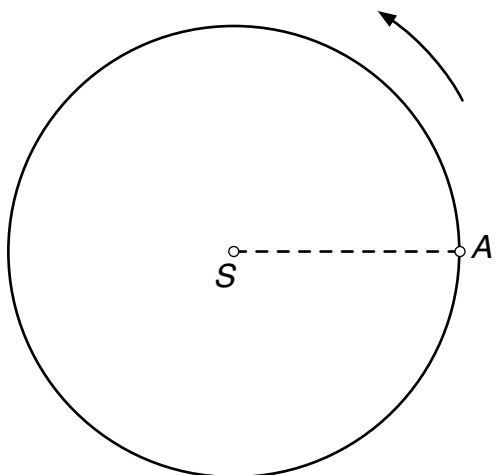


$\alpha = \underline{\hspace{2cm}}$

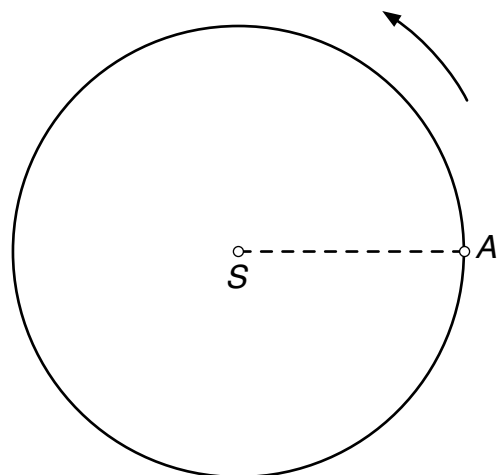
196.

Rotiraj točku  $A$  za zadani kut.

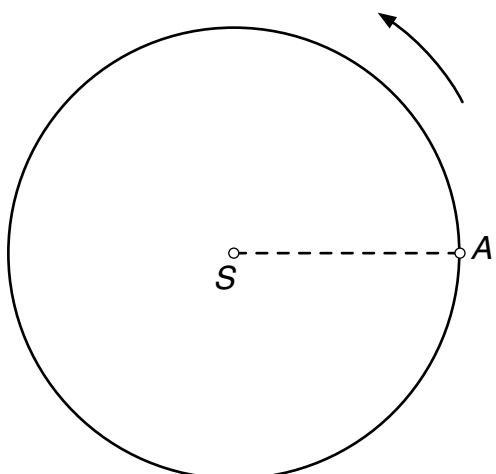
a)  $\alpha = 90^\circ$



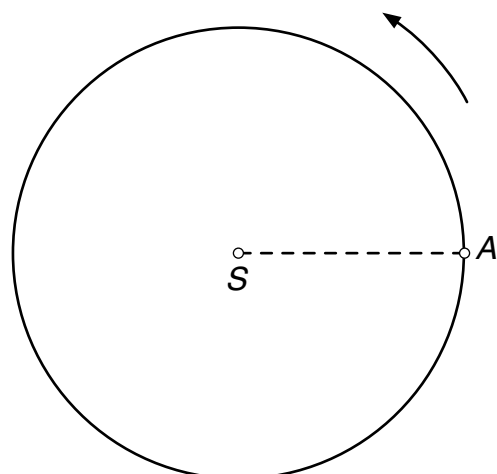
b)  $\alpha = 45^\circ$



c)  $\alpha = 60^\circ$



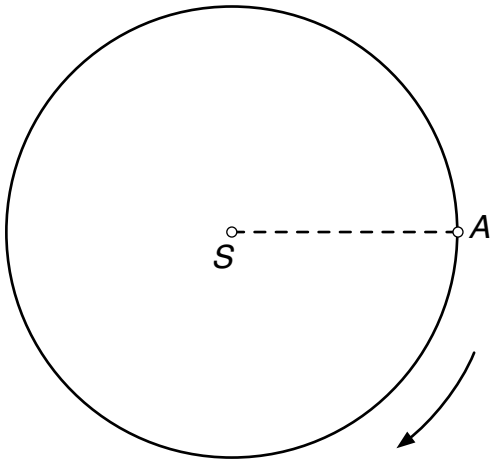
d)  $\alpha = 180^\circ$



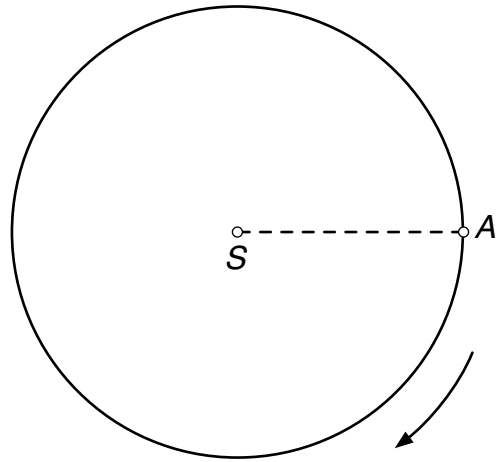
197.

Rotiraj točku  $A$  za zadani kut.

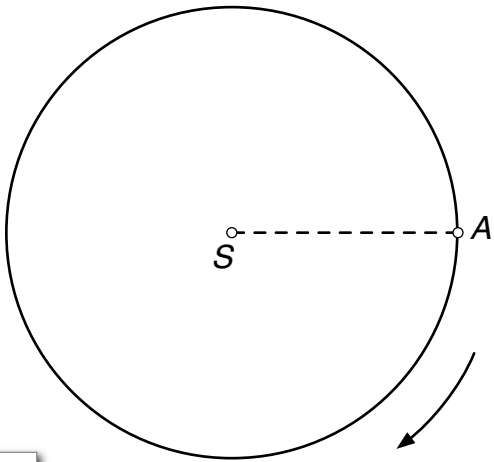
a)  $\alpha = -90^\circ$



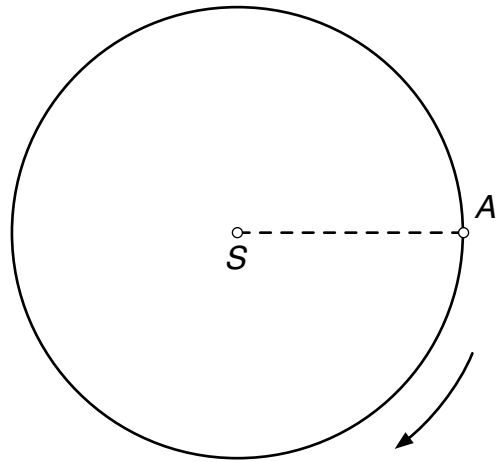
b)  $\alpha = -60^\circ$



c)  $\alpha = -45^\circ$



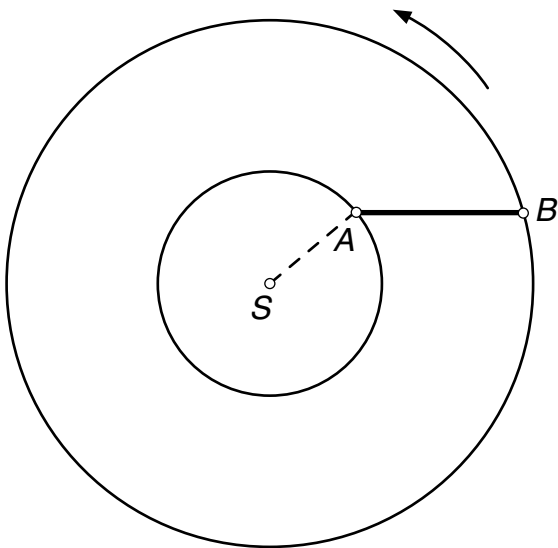
d)  $\alpha = -75^\circ$



198.

Rotiraj dužinu  $\overline{AB}$ .

a)  $\alpha = 90^\circ$



b)  $\alpha = 180^\circ$

