

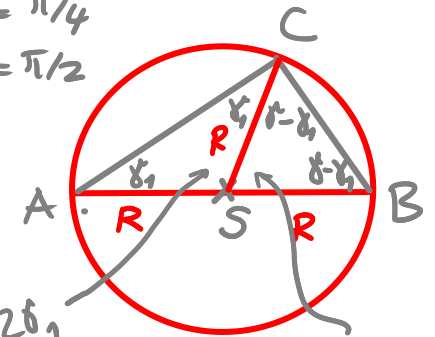
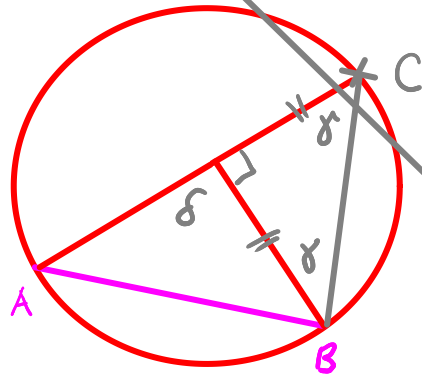
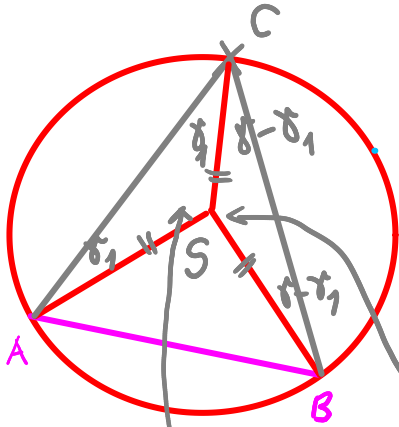
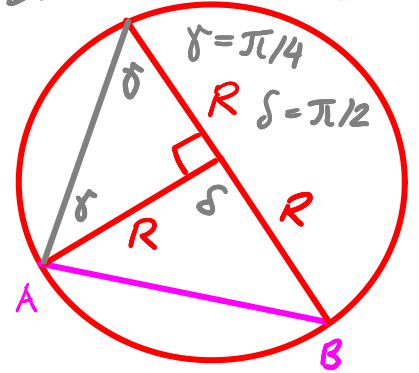
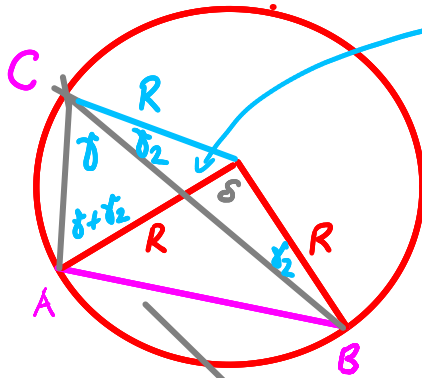
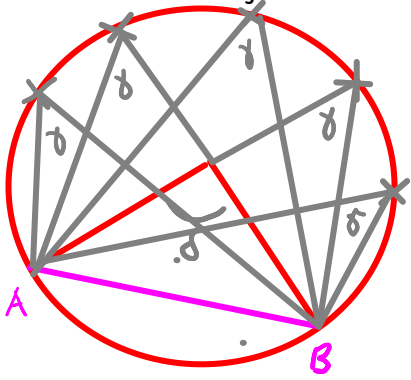
Teorem o središnjem i obodnom kutu, bis

$$\delta = 2\delta$$

δ -središnji kut



$$\pi - 2(\delta + \delta_2) \Rightarrow \delta = \pi - 2\delta_2 - (\pi - 2(\delta + \delta_2)) = 2\delta$$



$$\triangle ASC \quad \angle ASC = \pi - 2\delta_1$$

$$\triangle CSB \quad \angle CSB = \pi - 2(\delta - \delta_1)$$

$$\delta + \pi - 2(\delta - \delta_1) + \pi - 2\delta_1 = 2\pi$$

$$\delta - 2\delta = 0$$

$$\angle ASB = \pi$$

$$\pi - 2\delta_1 + \pi - 2(\delta - \delta_1)$$

$$\angle ASB = 2\pi - 2\delta$$

$$\pi = 2\pi - 2\delta \quad / \quad + 2\delta - \pi$$

$$2\delta = \pi \Rightarrow \delta = \pi/2$$

$$\delta = 2\delta$$

$\triangle ABC$

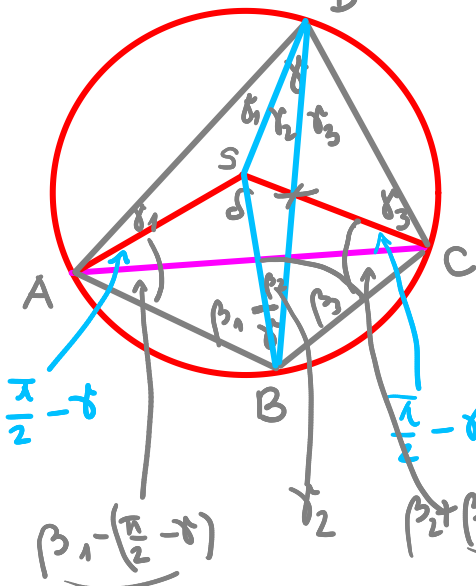
$$\pi = \beta_1 \frac{\pi}{2} + \delta + \beta_2 + \beta_3 - \frac{\pi}{2} + \delta + \beta$$

$$2\pi = \beta_1 + \beta_2 + \beta_3 + \beta + 2\delta$$

$$2\pi = 2\beta + 2\delta \Rightarrow \beta + \delta = \pi$$

Talesov teorem o obodnim kutevima nad promjerom

SVAKI OBODNI KUT NAD PROMJEROM KRUŽNICE JE PRAVI



$$\delta + \delta = \pi$$

$\square ABCD$
TETIVNI
ČETVEROKUT

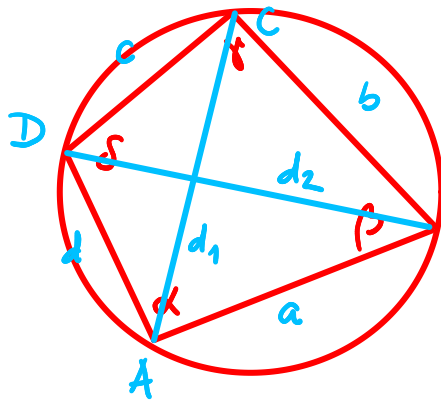
$$\beta_2 = \delta_2$$

$$\beta_2 + \beta_3 - (\frac{\pi}{2} - \delta)$$



$$2\delta + \beta - \beta_1 + \beta + \beta_3$$

$$2\delta + 2\beta = 2\pi$$



$$\alpha + \gamma = \pi$$

$$\beta + \delta = \pi$$

$$d_1 \cdot d_2 = a \cdot c + b \cdot d$$

PTOLOMEJEV TEOREM