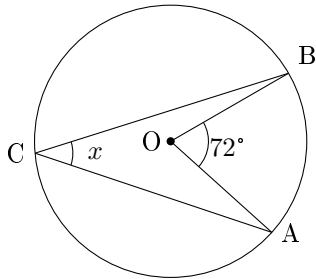


円 [円周角の定理(1)]

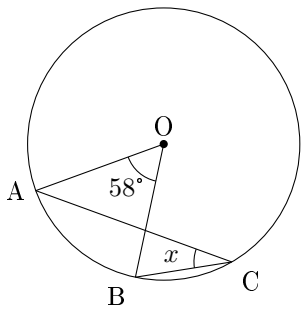
<演習問題>

次の図について、 $\angle x$ の大きさを求めよ。

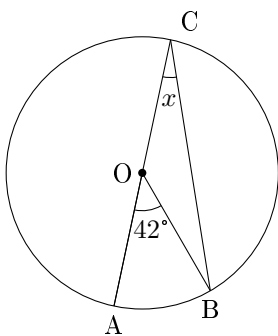
(1)



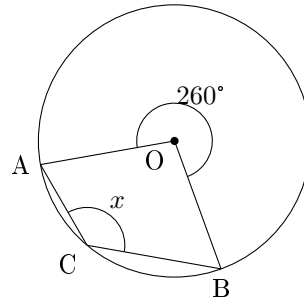
(2)



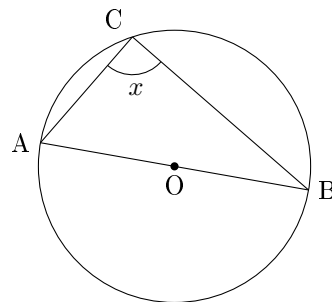
(3)



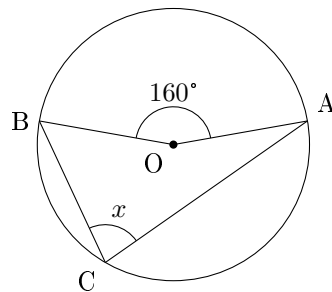
(4)



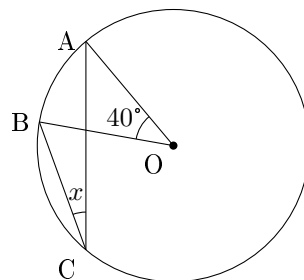
(5)



(6)



(7)

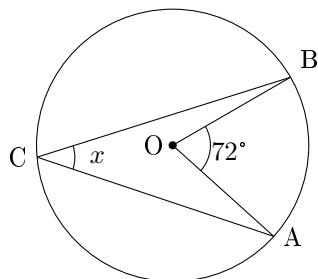


円 [円周角の定理(1)]

<演習問題>

次の図について、 $\angle x$ の大きさを求めよ。

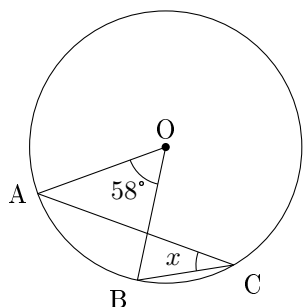
(1)



円周角の定理より、
 $\angle ACB = \frac{1}{2}\angle AOB = 36^\circ$

$$\angle x = 36^\circ$$

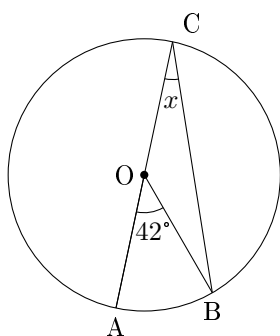
(2)



円周角の定理より、
 $\angle ACB = \frac{1}{2}\angle AOB = 29^\circ$

$$\angle x = 29^\circ$$

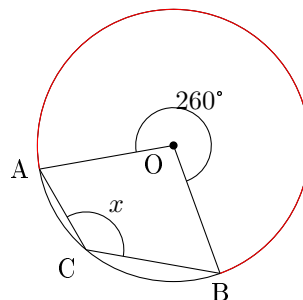
(3)



円周角の定理より、
 $\angle ACB = \frac{1}{2}\angle AOB = 21^\circ$

$$\angle x = 21^\circ$$

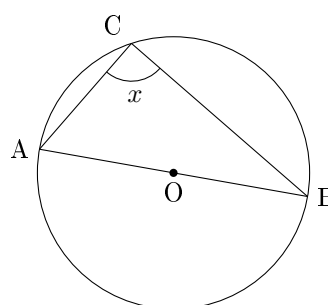
(4)



赤の弧について、円周角の定理より、
 $\angle ACB = \frac{1}{2}\angle AOB = 130^\circ$

$$\angle x = 130^\circ$$

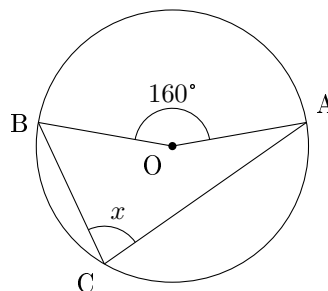
(5)



AB は直径なので、半円の弧に対する円周角より、
 $\angle ACB = 90^\circ$

$$\angle x = 90^\circ$$

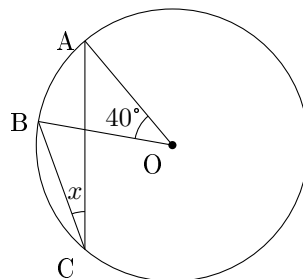
(6)



円周角の定理より、
 $\angle ACB = \frac{1}{2}\angle AOB = 80^\circ$

$$\angle x = 80^\circ$$

(7)



円周角の定理より、
 $\angle ACB = \frac{1}{2}\angle AOB = 20^\circ$

$$\angle x = 20^\circ$$