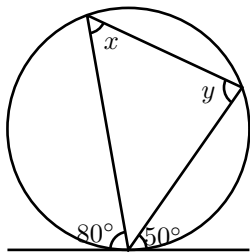


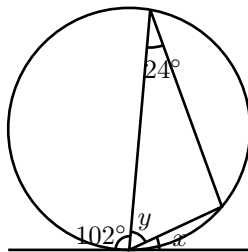
# 反射テスト 角度 接弦定理 01

1.  $\angle x$ ,  $\angle y$  の角度を求めよ. ( S 級 1 分 30 秒, A 級 2 分 40 秒, B 級 4 分, C 級 6 分 )

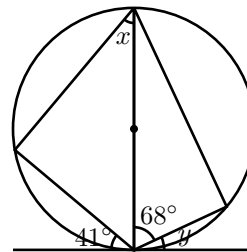
(1)



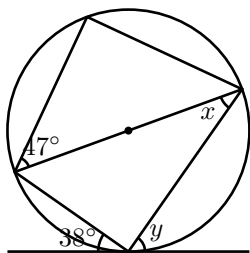
(2)



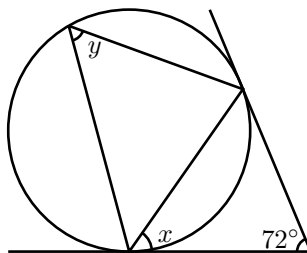
(3)



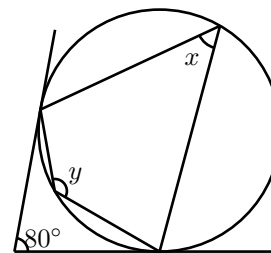
(4)



(5)

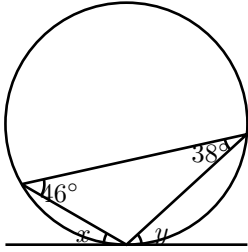


(6)

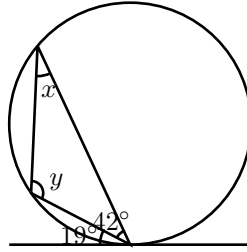


2.  $\angle x$ ,  $\angle y$  の角度を求めよ. (S級 1分30秒, A級 2分40秒, B級 4分, C級 6分)

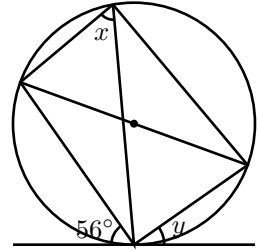
(1)



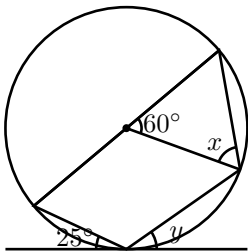
(2)



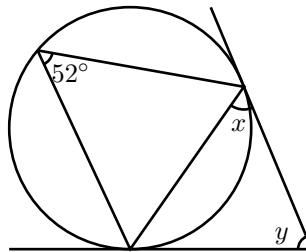
(3)



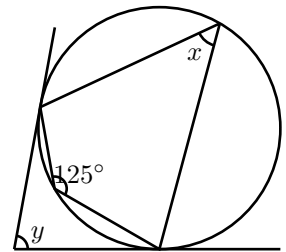
(4)



(5)



(6)

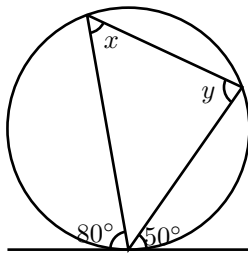


# 反射テスト 角度 接弦定理 01 解答解説

1.  $\angle x$ ,  $\angle y$  の角度を求めよ。(S級1分30秒, A級2分40秒, B級4分, C級6分)

★接弦定理 接線と弦が作る角度は、弦の円周角と等しい。

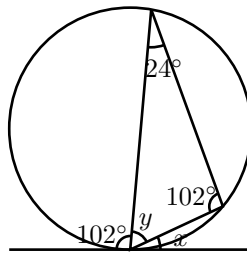
(1)



$$\angle x = 50^\circ \quad \dots \text{答え}$$

$$\angle y = 80^\circ \quad \dots \text{答え}$$

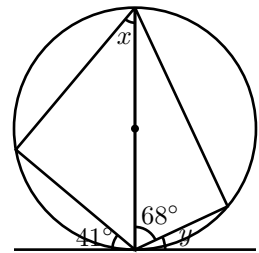
(2)



$$\angle x = 24^\circ \quad \dots \text{答え}$$

$$\angle y = 180 - (24 + 102) = 54^\circ \quad \dots \text{答え}$$

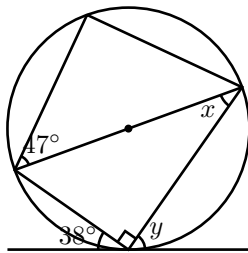
(3)



$$\angle x = 41^\circ \quad \dots \text{答え}$$

$$\angle y = 90 - 68 = 22^\circ \quad \dots \text{答え}$$

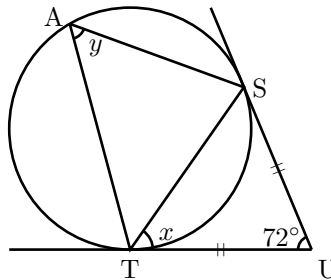
(4)



接弦定理から,  
 $\angle x = 38^\circ \quad \dots \text{答え}$

直径の円周角は  $90^\circ$  だから,  
 $\angle y = 90 - 38 = 52^\circ \quad \dots \text{答え}$

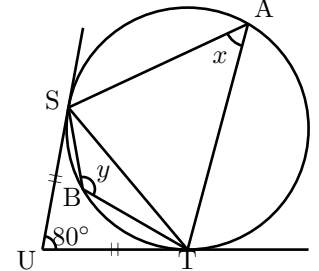
(5) 円と2つの接線



$\triangle SUT$  が二等辺三角形であるから,  
 $\angle x = (180 - 72) \div 2 = 54^\circ \quad \dots \text{答え}$

接弦定理から,  
 $\angle y = 54^\circ \quad \dots \text{答え}$

(6) 円と2つの接線



$\triangle SUT$  が二等辺三角形であるから,  
 $\angle UTS = (180 - 80) \div 2 = 50^\circ$

接弦定理から,  
 $\angle x = 50^\circ \quad \dots \text{答え}$   
 四角形 ATBS から,  
 $\angle y = 180 - 50 = 130^\circ \quad \dots \text{答え}$

