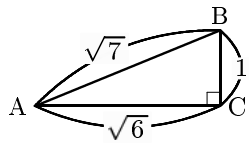


# 数学 I 三角比演習②

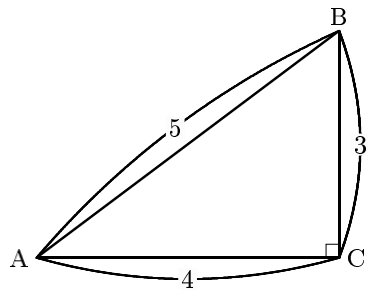
1. 次の直角三角形において、三角比の値を求めよ。

(1)



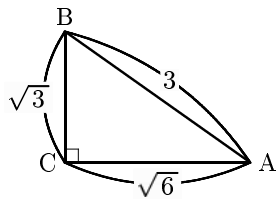
$\sin A = \underline{\hspace{2cm}}, \cos A = \underline{\hspace{2cm}}, \tan A = \underline{\hspace{2cm}}$

(2)



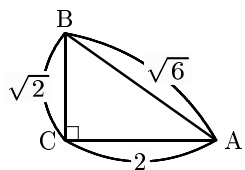
$\sin A = \underline{\hspace{2cm}}, \cos A = \underline{\hspace{2cm}}, \tan A = \underline{\hspace{2cm}}$

(3)



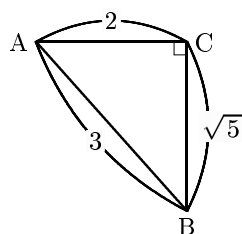
$\sin A = \underline{\hspace{2cm}}, \cos A = \underline{\hspace{2cm}}, \tan A = \underline{\hspace{2cm}}$

(4)



$\sin A = \underline{\hspace{2cm}}, \cos A = \underline{\hspace{2cm}}, \tan A = \underline{\hspace{2cm}}$

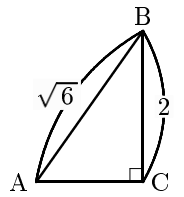
(5)



$\sin A = \underline{\hspace{2cm}}, \cos A = \underline{\hspace{2cm}}, \tan A = \underline{\hspace{2cm}}$

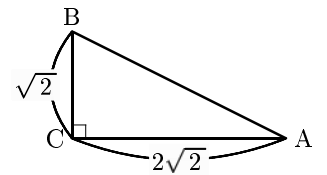
1年 組 番 氏名 \_\_\_\_\_

(6)



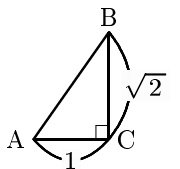
$\sin A = \underline{\hspace{2cm}}, \cos A = \underline{\hspace{2cm}}, \tan A = \underline{\hspace{2cm}}$

(7)



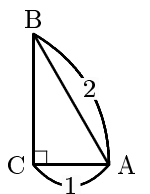
$\sin A = \underline{\hspace{2cm}}, \cos A = \underline{\hspace{2cm}}, \tan A = \underline{\hspace{2cm}}$

(8)



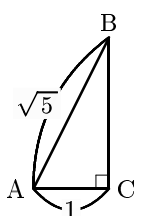
$\sin A = \underline{\hspace{2cm}}, \cos A = \underline{\hspace{2cm}}, \tan A = \underline{\hspace{2cm}}$

(9)



$\sin A = \underline{\hspace{2cm}}, \cos A = \underline{\hspace{2cm}}, \tan A = \underline{\hspace{2cm}}$

(10)



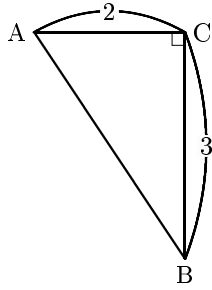
$\sin A = \underline{\hspace{2cm}}, \cos A = \underline{\hspace{2cm}}, \tan A = \underline{\hspace{2cm}}$

数学 I 三角比関連の演習④

1年 組 番 氏名 \_\_\_\_\_

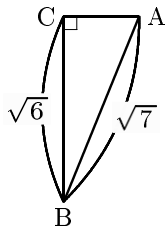
1. 次の直角三角形において、残りの辺の長さを求めよ。

(1)



答 \_\_\_\_\_

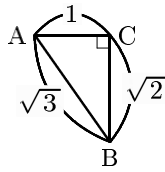
(2)



答 \_\_\_\_\_

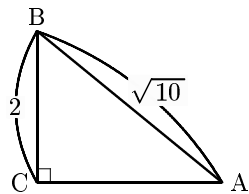
2. 次の直角三角形において、三角比の値を求めよ。

(1)



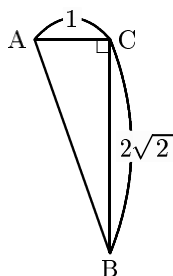
$\sin A = \underline{\hspace{2cm}}$ ,  $\cos A = \underline{\hspace{2cm}}$ ,  $\tan A = \underline{\hspace{2cm}}$

(2)



$\sin A = \underline{\hspace{2cm}}$ ,  $\cos A = \underline{\hspace{2cm}}$ ,  $\tan A = \underline{\hspace{2cm}}$

(3)



$\sin A = \underline{\hspace{2cm}}$ ,  $\cos A = \underline{\hspace{2cm}}$ ,  $\tan A = \underline{\hspace{2cm}}$

3. 三角比の表を見て、次の三角比の値を求めよ。

(1)  $\tan 13^\circ$

答 \_\_\_\_\_

(2)  $\cos 79^\circ$

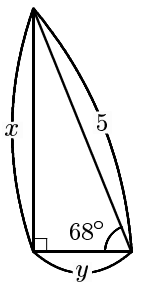
答 \_\_\_\_\_

(3)  $\sin 68^\circ$

答 \_\_\_\_\_

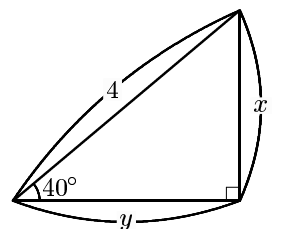
4. 次の図における  $x$  と  $y$  の値を、小数第 2 位を四捨五入して求めよ。

(1)



答  $x = \underline{\hspace{2cm}}$ ,  $y = \underline{\hspace{2cm}}$

(2)



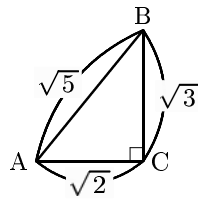
答  $x = \underline{\hspace{2cm}}$ ,  $y = \underline{\hspace{2cm}}$

数学 I 三角比関連の演習⑤

1年 組 番 氏名 \_\_\_\_\_

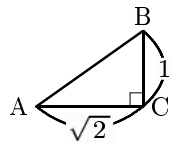
1. 次の直角三角形において、三角比の値を求めよ。

(1)



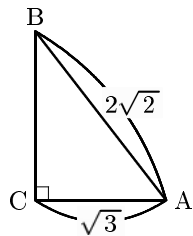
$\sin A = \underline{\hspace{2cm}}, \cos A = \underline{\hspace{2cm}}, \tan A = \underline{\hspace{2cm}}$

(2)



$\sin A = \underline{\hspace{2cm}}, \cos A = \underline{\hspace{2cm}}, \tan A = \underline{\hspace{2cm}}$

(3)



$\sin A = \underline{\hspace{2cm}}, \cos A = \underline{\hspace{2cm}}, \tan A = \underline{\hspace{2cm}}$

2. 三角比の表を見て、次の三角比の値を求めよ。

(1)  $\tan 15^\circ$

答 \_\_\_\_\_

(2)  $\tan 88^\circ$

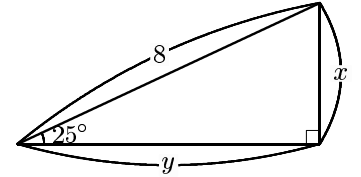
答 \_\_\_\_\_

(3)  $\tan 43^\circ$

答 \_\_\_\_\_

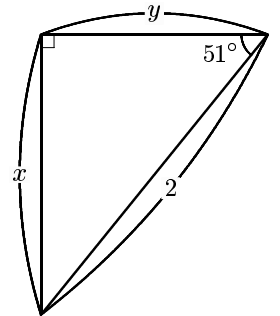
3. 次の図における  $x$  と  $y$  の値を、小数第 2 位を四捨五入して求めよ。

(1)



答  $x = \underline{\hspace{2cm}}, y = \underline{\hspace{2cm}}$

(2)



答  $x = \underline{\hspace{2cm}}, y = \underline{\hspace{2cm}}$

4.  $\triangle ABC$  について、次の問いに答えよ。

(1)  $\sin A = \frac{\sqrt{5}}{3}$  のとき、 $\cos A$ 、 $\tan A$  の値を求めよ。

答  $\cos A = \underline{\hspace{2cm}}, \tan A = \underline{\hspace{2cm}}$

(2)  $\sin A = \frac{\sqrt{7}}{5}$  のとき、 $\cos A$ 、 $\tan A$  の値を求めよ。

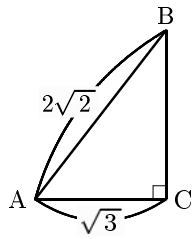
答  $\cos A = \underline{\hspace{2cm}}, \tan A = \underline{\hspace{2cm}}$

数学 I 鈍角の三角比⑥

1年 組 番 氏名 \_\_\_\_\_

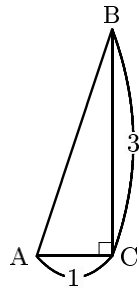
1. 次の直角三角形において、三角比の値を求めよ。

(1)



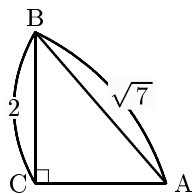
$\sin A = \underline{\hspace{2cm}}, \cos A = \underline{\hspace{2cm}}, \tan A = \underline{\hspace{2cm}}$

(2)



$\sin A = \underline{\hspace{2cm}}, \cos A = \underline{\hspace{2cm}}, \tan A = \underline{\hspace{2cm}}$

(3)



$\sin A = \underline{\hspace{2cm}}, \cos A = \underline{\hspace{2cm}}, \tan A = \underline{\hspace{2cm}}$

2.  $\triangle ABC$  について、次の問いに答えよ。

(1)  $\tan \theta = \frac{3}{4}$  のとき、 $\sin \theta$ 、 $\cos \theta$  の値を求めよ。 ( $0^\circ \leq \theta \leq 90^\circ$ )

答  $\sin \theta = \underline{\hspace{2cm}}, \cos \theta = \underline{\hspace{2cm}}$

(2)  $\theta$  が鈍角で、 $\cos \theta = -\frac{2}{3}$  のとき、 $\sin \theta$ 、 $\tan \theta$  の値を求めよ。

答  $\sin \theta = \underline{\hspace{2cm}}, \tan \theta = \underline{\hspace{2cm}}$

(3)  $\cos \theta = \frac{\sqrt{7}}{4}$  のとき、 $\sin \theta$ 、 $\tan \theta$  の値を求めよ。 ( $0^\circ \leq \theta \leq 180^\circ$ )

答  $\sin \theta = \underline{\hspace{2cm}}, \tan \theta = \underline{\hspace{2cm}}$

3. 次の三角比の値を求めよ。

(1)  $\cos 135^\circ$

答 \_\_\_\_\_

(2)  $\sin 45^\circ$

答 \_\_\_\_\_

(3)  $\sin 120^\circ$

答 \_\_\_\_\_

(4)  $\sin 135^\circ$

答 \_\_\_\_\_

(5)  $\tan 0^\circ$

答 \_\_\_\_\_

(6)  $\tan 150^\circ$

答 \_\_\_\_\_

(7)  $\cos 60^\circ$

答 \_\_\_\_\_

(8)  $\cos 90^\circ$

答 \_\_\_\_\_

(9)  $\tan 45^\circ$

答 \_\_\_\_\_

(10)  $\cos 150^\circ$

答 \_\_\_\_\_