

氏名 \_\_\_\_\_

サイン コサイン タンジェント  
 ■ sin, cos, tan

•  $\sin A = \frac{\text{縦}}{\text{斜め}}$

•  $\cos A = \frac{\text{横}}{\text{斜め}}$

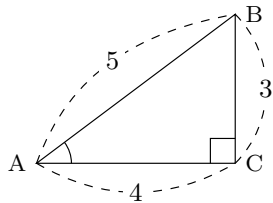
•  $\tan A = \frac{\text{縦}}{\text{横}}$

• 三平方の定理

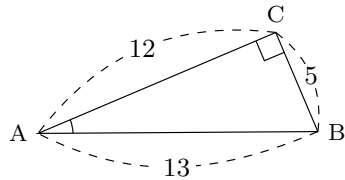
**斜め**<sup>2</sup> = 〇<sup>2</sup> + △<sup>2</sup>

1 次の直角三角形 ABC で、 $\sin A$ ,  $\cos A$ ,  $\tan A$  の値を求めなさい。

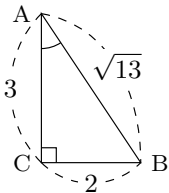
(1)



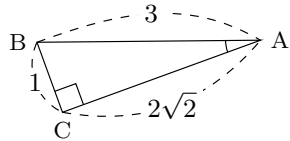
(2)



(3)

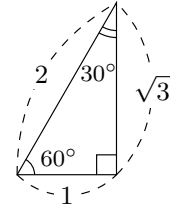
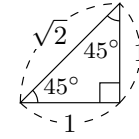
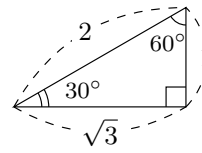


(4)



2 次の直角三角形を用いて  $30^\circ$ ,  $45^\circ$ ,  $60^\circ$  の  $\sin$ ,  $\cos$ ,  $\tan$  の値を求めなさい。

※注  $30^\circ$ ,  $45^\circ$ ,  $60^\circ$  については三角比の表を使ってはいけない



$\sin 30^\circ =$

$\cos 30^\circ =$

$\tan 30^\circ =$

$\sin 45^\circ =$

$\cos 45^\circ =$

$\tan 45^\circ =$

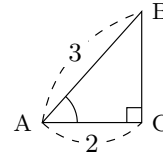
$\sin 60^\circ =$

$\cos 60^\circ =$

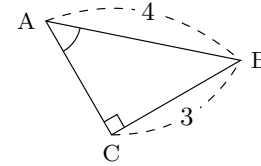
$\tan 60^\circ =$

3 次の直角三角形 ABC で、 $\sin A$ ,  $\cos A$ ,  $\tan A$  の値を求めなさい。

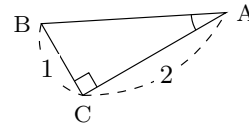
(1)



(2)



(3)



練習プリント #47 1 (1)  $\sin A = \frac{13}{5}$ ,  $\cos A = \frac{12}{5}$ ,  $\tan A = \frac{12}{13}$  (2)  $\frac{4}{5}$ ,  $\frac{3}{5}$ ,  $\frac{4}{3}$  (3)  $\frac{7}{24}$ ,  $\frac{25}{24}$ ,  $\frac{7}{25}$  (4)  $\frac{\sqrt{5}}{2}$ ,  $\frac{3}{2}$ ,  $\frac{3}{\sqrt{5}}$  2  $\sin 30^\circ = \frac{1}{2}$ ,  $\sin 45^\circ = \frac{\sqrt{2}}{2}$ ,  $\sin 60^\circ = \frac{\sqrt{3}}{2}$  3 (1)  $\sin A = \frac{34}{5\sqrt{34}}$ ,  $\cos A = \frac{34}{5}$ ,  $\tan A = \frac{34}{3\sqrt{34}}$  (2)  $\frac{4}{5}$ ,  $\frac{4}{15}$ ,  $\frac{4}{15}$  (3)  $\frac{5\sqrt{29}}{5}$ ,  $\frac{2\sqrt{29}}{5}$ ,  $\frac{29}{5}$  (4)  $\frac{41}{5\sqrt{41}}$ ,  $\frac{41}{5}$ ,  $\frac{41}{4}$

氏名 \_\_\_\_\_

サイン コサイン タンジェント  
■ sin, cos, tan

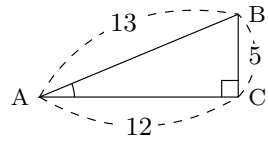
•  $\sin A = \frac{\text{縦}}{\text{斜め}}$       •  $\cos A = \frac{\text{横}}{\text{斜め}}$       •  $\tan A = \frac{\text{縦}}{\text{横}}$

• 三平方の定理

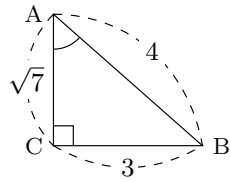
**斜め**<sup>2</sup> = 〇<sup>2</sup> + △<sup>2</sup>

1 次の直角三角形 ABC で、 $\sin A$ ,  $\cos A$ ,  $\tan A$  の値を求めなさい。

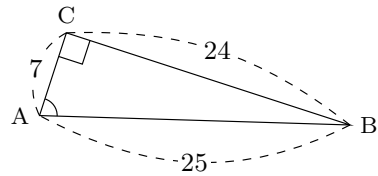
(1)



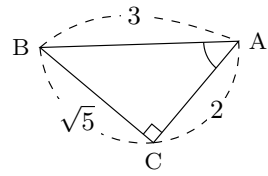
(2)



(3)

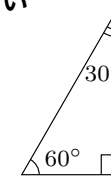
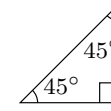
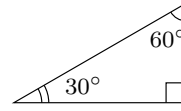


(4)



2 次の直角三角形を用いて  $30^\circ$ ,  $45^\circ$ ,  $60^\circ$  の  $\sin$ ,  $\cos$ ,  $\tan$  の値を求めなさい。

※注  $30^\circ$ ,  $45^\circ$ ,  $60^\circ$  については三角比の表を使ってはいけない



$\sin 30^\circ =$

$\sin 45^\circ =$

$\sin 60^\circ =$

$\cos 30^\circ =$

$\cos 45^\circ =$

$\cos 60^\circ =$

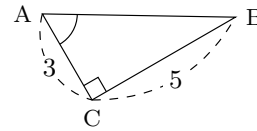
$\tan 30^\circ =$

$\tan 45^\circ =$

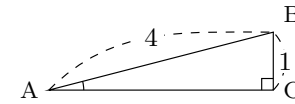
$\tan 60^\circ =$

3 次の直角三角形 ABC で、 $\sin A$ ,  $\cos A$ ,  $\tan A$  の値を求めなさい。

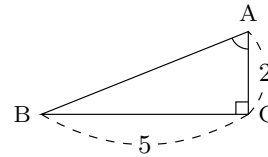
(1)



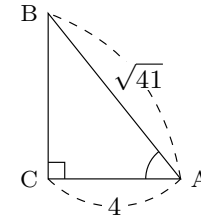
(2)



(3)



(4)



1 (1)  $\sin A = \frac{5}{13}$ ,  $\cos A = \frac{12}{13}$ ,  $\tan A = \frac{5}{12}$  (2)  $\sin A = \frac{3}{4}$ ,  $\cos A = \frac{4}{5}$ ,  $\tan A = \frac{3}{4}$  (3)  $\sin A = \frac{7}{25}$ ,  $\cos A = \frac{24}{25}$ ,  $\tan A = \frac{7}{24}$  (4)  $\sin A = \frac{2}{3}$ ,  $\cos A = \frac{3}{5}$ ,  $\tan A = \frac{2}{3}$