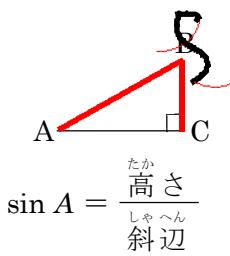


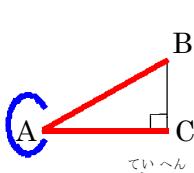
数学 | 三角比 課題

1. 次の三角比を求めよ。



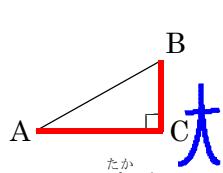
$$\sin A = \frac{\text{高さ}}{\text{斜辺}}$$

(サイン)



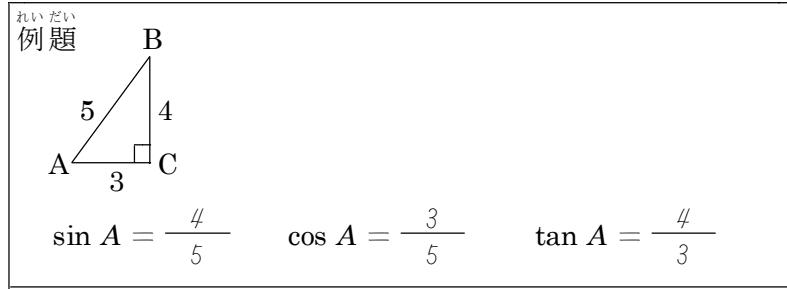
$$\cos A = \frac{\text{底辺}}{\text{斜辺}}$$

(コサイン)

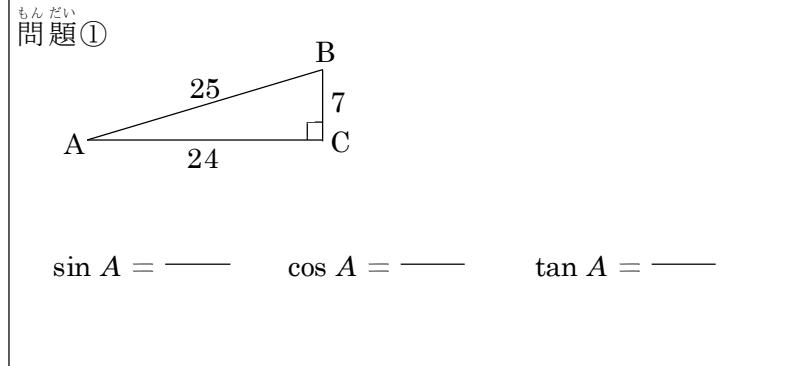


$$\tan A = \frac{\text{高さ}}{\text{底辺}}$$

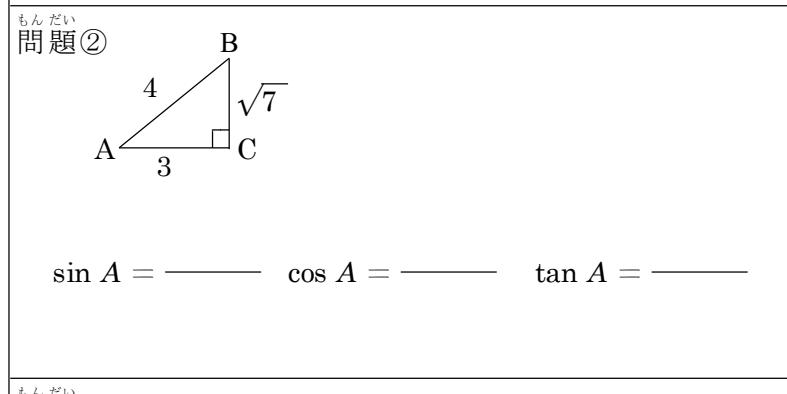
(タンジェント)



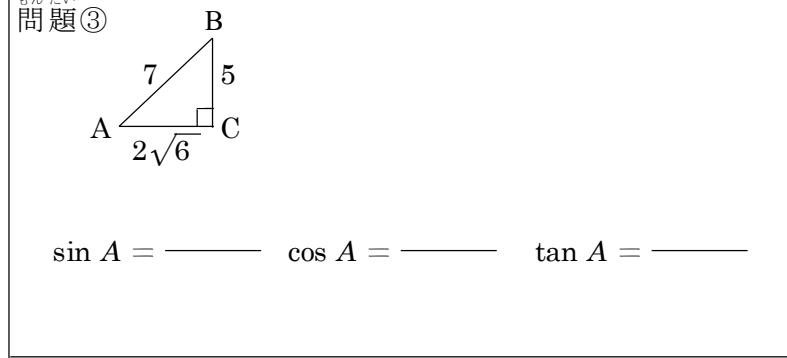
$$\sin A = \frac{4}{5} \quad \cos A = \frac{3}{5} \quad \tan A = \frac{4}{3}$$



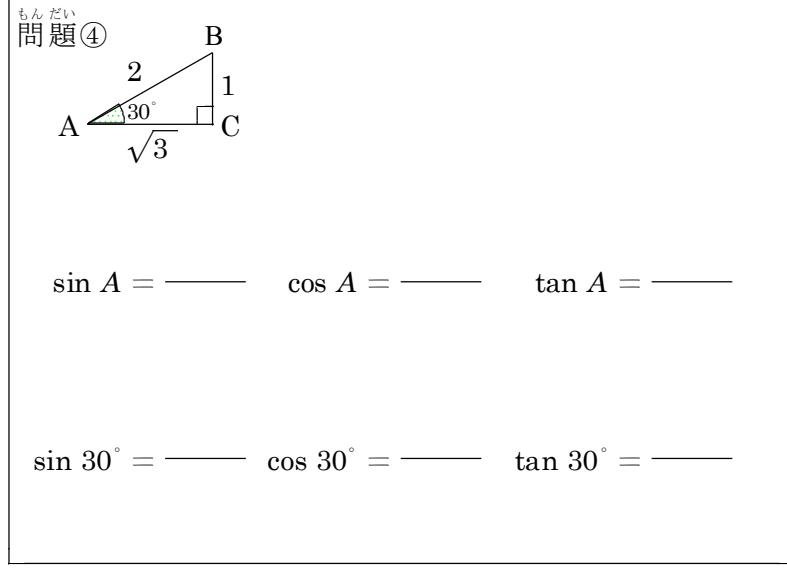
$$\sin A = \quad \cos A = \quad \tan A =$$



$$\sin A = \quad \cos A = \quad \tan A =$$



$$\sin A = \quad \cos A = \quad \tan A =$$



$$\sin A = \quad \cos A = \quad \tan A =$$

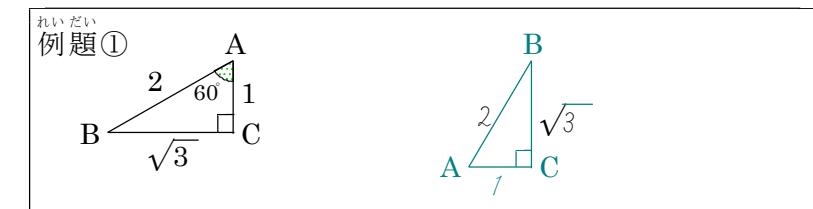
$$\sin 30^\circ = \quad \cos 30^\circ = \quad \tan 30^\circ =$$

()年()組()番()

2. 次の図形を書き換えて、三角比を求めよ。

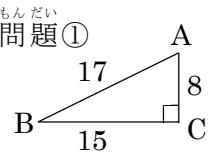
Rewrite the following figure to find the trigonometric ratios.

※調べる角を左、直角を右にする。

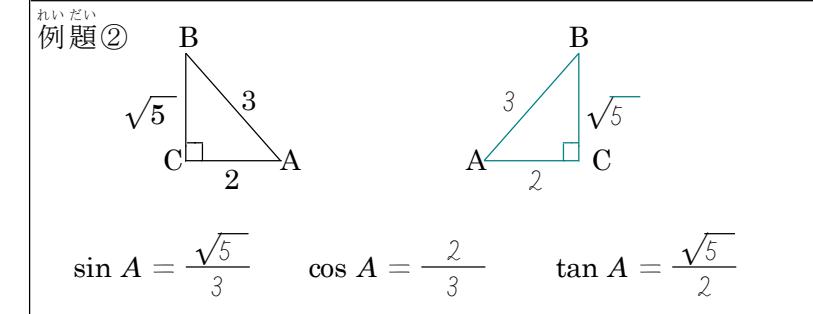


$$\sin A = \frac{\sqrt{3}}{2} \quad \cos A = \frac{1}{2} \quad \tan A = \frac{\sqrt{3}}{1} = \sqrt{3}$$

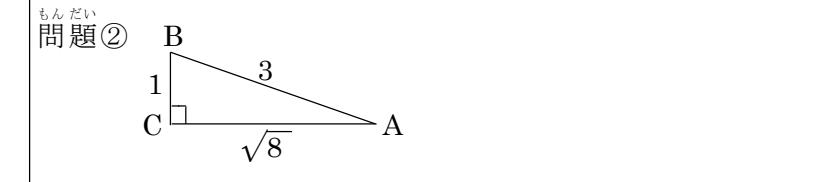
$$\sin 60^\circ = \frac{\sqrt{3}}{2} \quad \cos 60^\circ = \frac{1}{2} \quad \tan 60^\circ = \frac{\sqrt{3}}{1} = \sqrt{3}$$



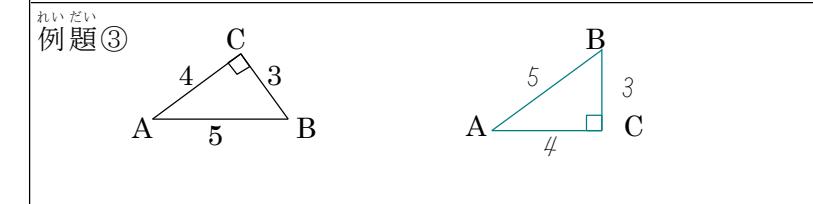
$$\sin A = \quad \cos A = \quad \tan A =$$



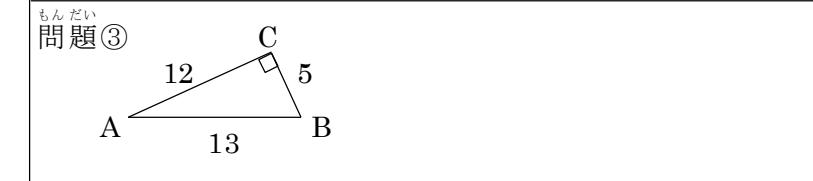
$$\sin A = \frac{\sqrt{5}}{3} \quad \cos A = \frac{2}{3} \quad \tan A = \frac{\sqrt{5}}{2}$$



$$\sin A = \quad \cos A = \quad \tan A =$$



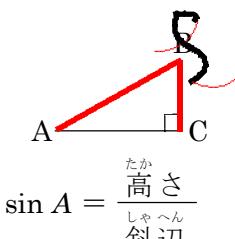
$$\sin A = \frac{3}{5} \quad \cos A = \frac{4}{5} \quad \tan A = \frac{3}{4}$$



$$\sin A = \quad \cos A = \quad \tan A =$$

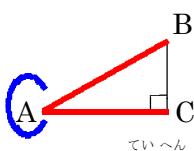
数学 | 三角比 2 課題

1. 次の三角比を求めよ。



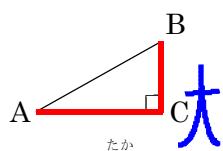
$$\sin A = \frac{\text{高さ}}{\text{斜辺}}$$

(サイン)



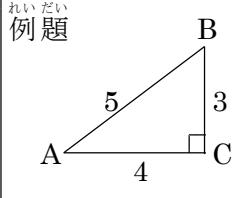
$$\cos A = \frac{\text{底辺}}{\text{斜辺}}$$

(コサイン)



$$\tan A = \frac{\text{高さ}}{\text{底辺}}$$

(タンジェント)

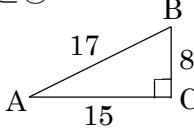


$$\sin A = \frac{3}{5}$$

$$\cos A = \frac{4}{5}$$

$$\tan A = \frac{3}{4}$$

問題①

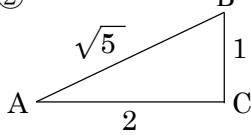


$$\sin A = \text{_____}$$

$$\cos A = \text{_____}$$

$$\tan A = \text{_____}$$

問題②

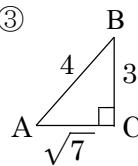


$$\sin A = \text{_____}$$

$$\cos A = \text{_____}$$

$$\tan A = \text{_____}$$

問題③

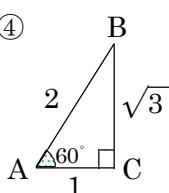


$$\sin A = \text{_____}$$

$$\cos A = \text{_____}$$

$$\tan A = \text{_____}$$

問題④



$$\sin A = \text{_____}$$

$$\cos A = \text{_____}$$

$$\tan A = \text{_____}$$

$$\sin 60^\circ = \text{_____}$$

$$\cos 60^\circ = \text{_____}$$

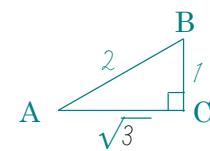
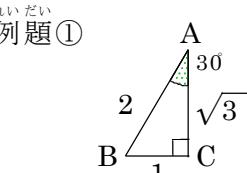
$$\tan 60^\circ = \text{_____}$$

()年()組()番()

2. 次の図形を書き換えて、三角比を求めよ。

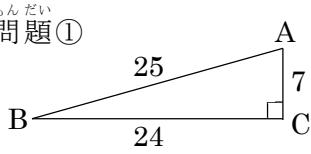
Rewrite the following figure to find the trigonometric ratios.

※調べる角を左、直角を右にする。

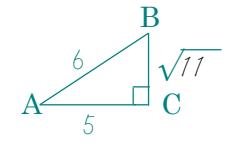
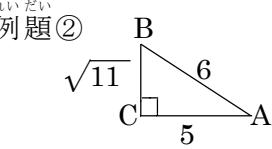


$$\sin A = \frac{1}{2} \quad \cos A = \frac{\sqrt{3}}{2} \quad \tan A = \frac{1}{\sqrt{3}}$$

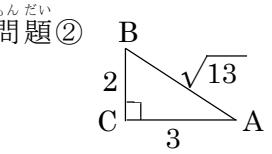
$$\sin 30^\circ = \frac{1}{2} \quad \cos 30^\circ = \frac{\sqrt{3}}{2} \quad \tan 30^\circ = \frac{1}{\sqrt{3}}$$



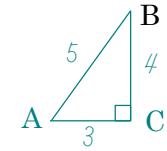
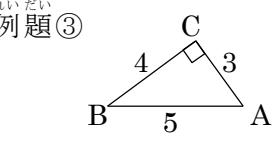
$$\sin A = \text{_____} \quad \cos A = \text{_____} \quad \tan A = \text{_____}$$



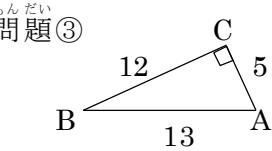
$$\sin A = \frac{\sqrt{11}}{6} \quad \cos A = \frac{5}{6} \quad \tan A = \frac{\sqrt{11}}{5}$$



$$\sin A = \text{_____} \quad \cos A = \text{_____} \quad \tan A = \text{_____}$$



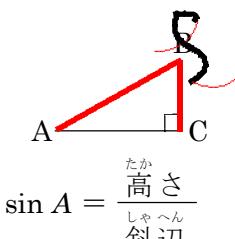
$$\sin A = \frac{4}{5} \quad \cos A = \frac{3}{5} \quad \tan A = \frac{4}{3}$$



$$\sin A = \text{_____} \quad \cos A = \text{_____} \quad \tan A = \text{_____}$$

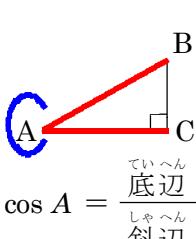
数学 | 三角比 3 課題

1. 次の三角比を求めよ。



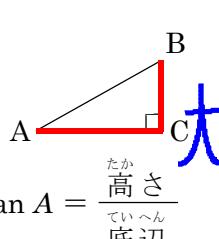
$$\sin A = \frac{\text{高さ}}{\text{斜辺}}$$

(サイン)



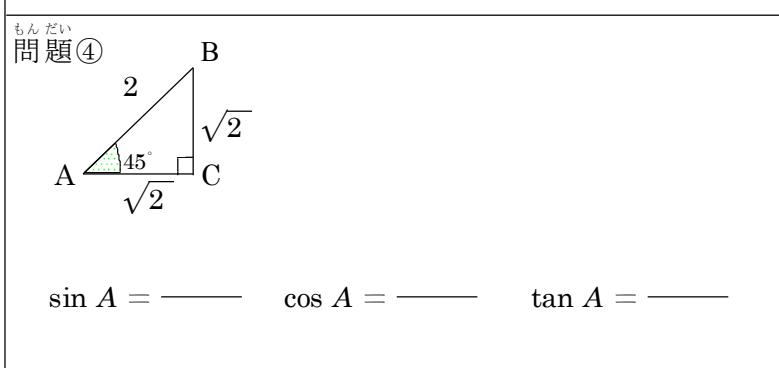
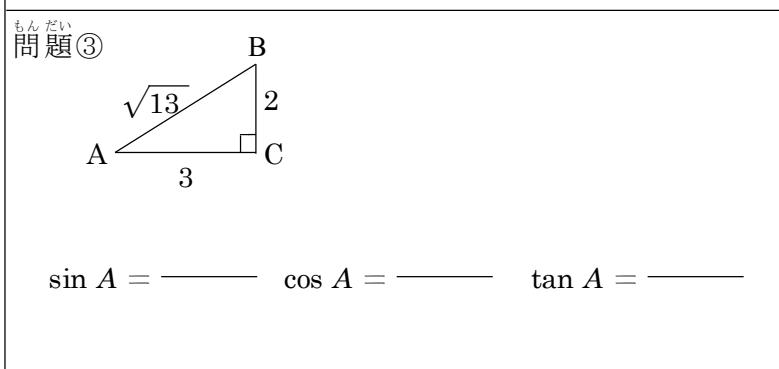
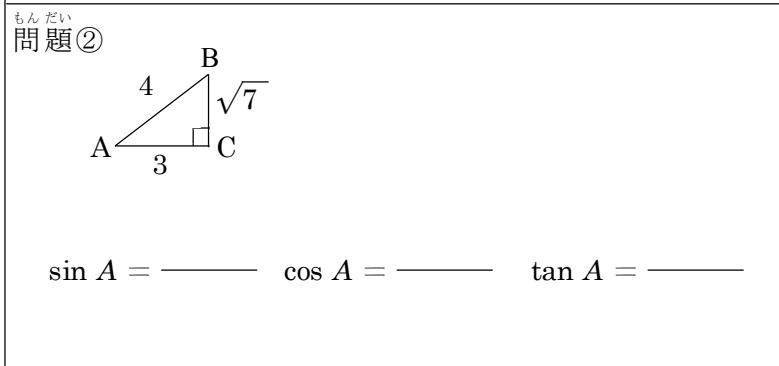
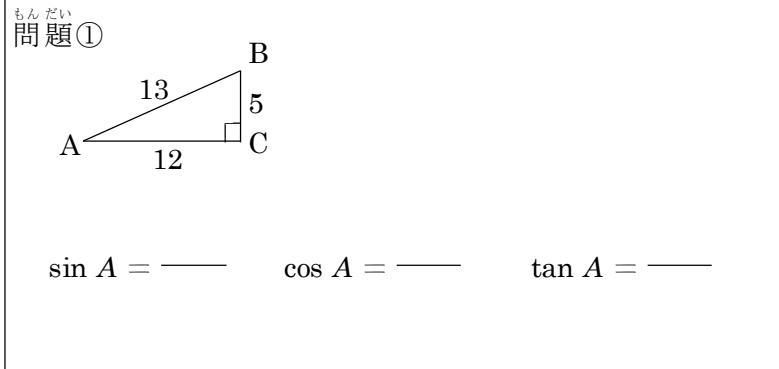
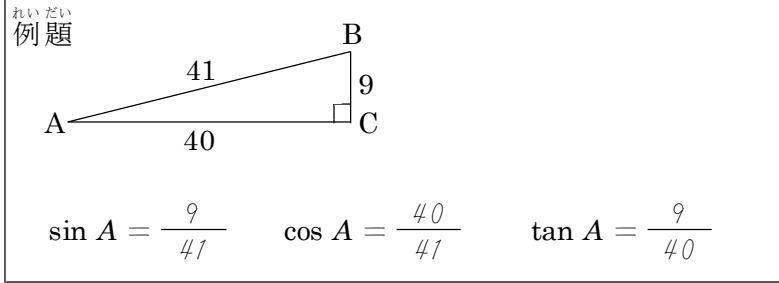
$$\cos A = \frac{\text{底辺}}{\text{斜辺}}$$

(コサイン)



$$\tan A = \frac{\text{高さ}}{\text{底辺}}$$

(タンジェント)



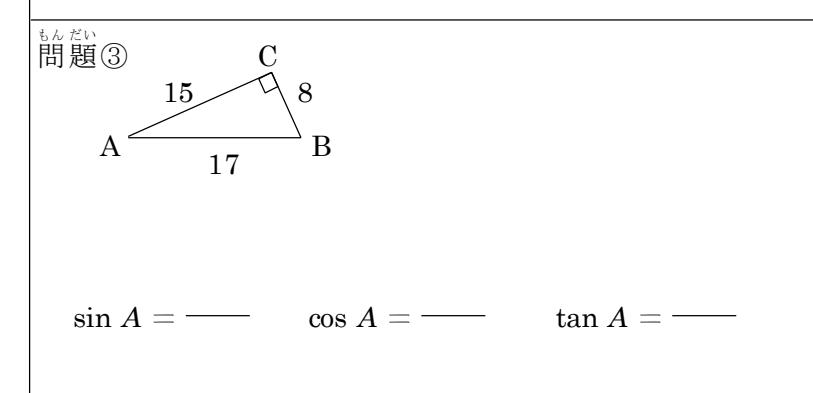
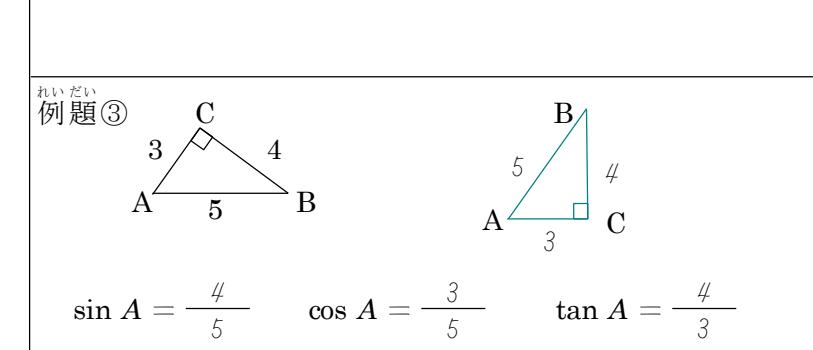
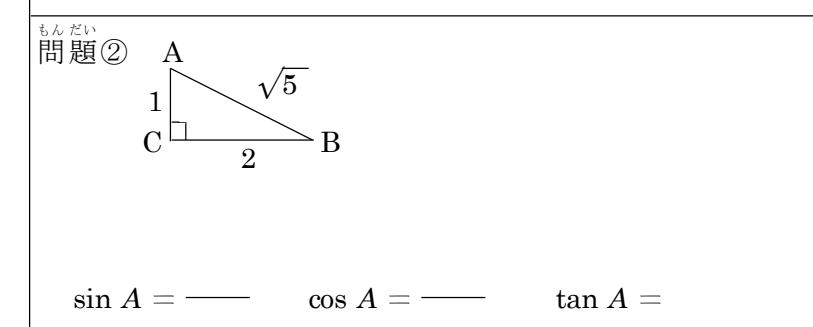
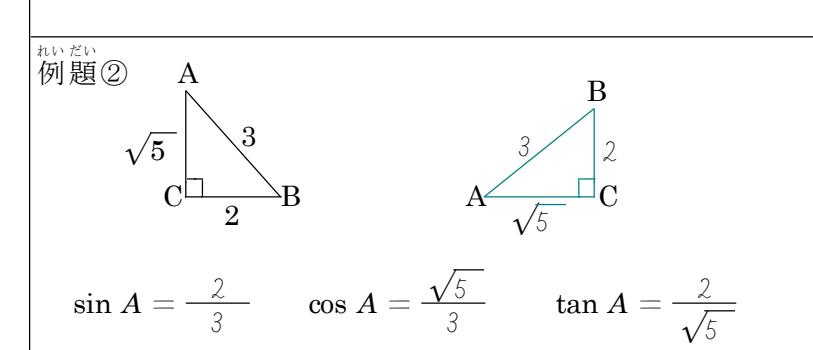
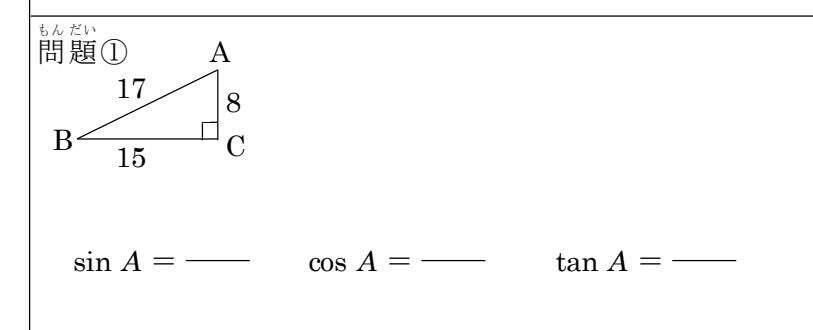
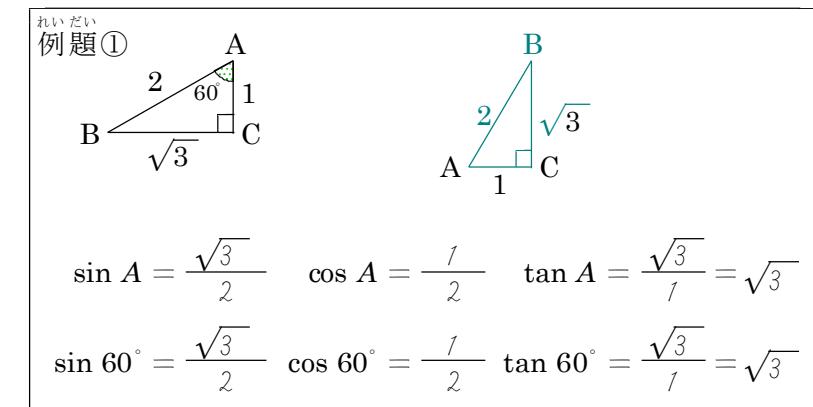
$$\sin 45^\circ = \quad \cos 45^\circ = \quad \tan 45^\circ =$$

()年()組()番()

2. 次の図形を書き換えて、三角比を求めよ。

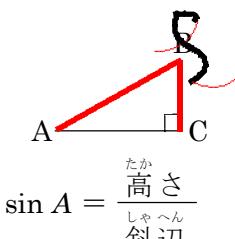
Rewrite the following figure to find the trigonometric ratios.

※調べる角を左、直角を右にする。



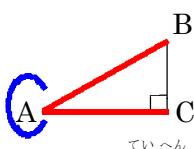
数学 | 三角比 4 課題

1. 次の三角比を求めよ。



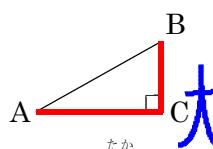
$$\sin A = \frac{\text{高さ}}{\text{斜辺}}$$

(サイン)



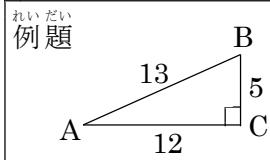
$$\cos A = \frac{\text{底辺}}{\text{斜辺}}$$

(コサイン)



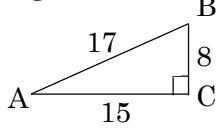
$$\tan A = \frac{\text{高さ}}{\text{底辺}}$$

(タンジェント)



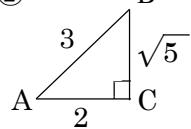
$$\sin A = \frac{9}{41} \quad \cos A = \frac{40}{41} \quad \tan A = \frac{9}{40}$$

問題①



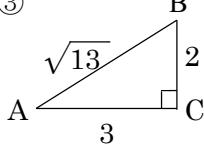
$$\sin A = \quad \cos A = \quad \tan A =$$

問題②



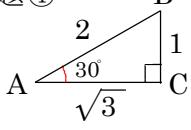
$$\sin A = \quad \cos A = \quad \tan A =$$

問題③



$$\sin A = \quad \cos A = \quad \tan A =$$

問題④



$$\sin A = \quad \cos A = \quad \tan A =$$

$$\sin 30^\circ = \quad \cos 30^\circ = \quad \tan 30^\circ =$$

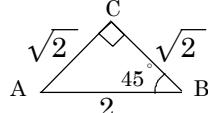
()年()組()番()

2. 次の図形を書き換えて、三角比を求めよ。

Rewrite the following figure to find the trigonometric ratios.

※調べる角を左、直角を右にする。

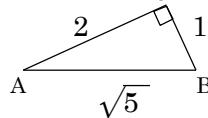
例題



$$\sin A = \frac{\sqrt{2}}{2} \quad \cos A = \frac{\sqrt{2}}{2} \quad \tan A = \frac{\sqrt{2}}{\sqrt{2}} = 1$$

$$\sin 45^\circ = \frac{\sqrt{2}}{2} \quad \cos 45^\circ = \frac{\sqrt{2}}{2} \quad \tan 45^\circ = \frac{\sqrt{2}}{\sqrt{2}} = 1$$

問題

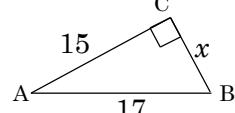


$$\sin A = \quad \cos A = \quad \tan A =$$

3. 次の三角比を求めよ。

Find the following trigonometric ratios.

例題



$$17^2 = x^2 + 15^2$$

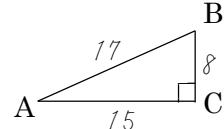
$$x^2 = 17^2 - 15^2$$

$$= (17+15)(17-15)$$

$$= 32 \times 2 = 64$$

$x > 0$ より

$$x = \sqrt{64} = 8$$



$$\sin A = \frac{8}{17}$$

$$\sin A =$$

$$\cos A = \frac{15}{17}$$

$$\cos A =$$

$$\tan A = \frac{8}{15}$$

$$\tan A =$$