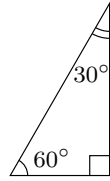
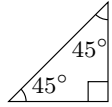
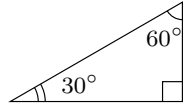


氏名 _____

(復習) 次の直角三角形を用いて, 30° , 45° , 60° , 120° , 135° , 150° の \sin , \cos , \tan の値を求めなさい。



$\sin 30^\circ =$

$\sin 45^\circ =$

$\sin 60^\circ =$

$\cos 30^\circ =$

$\cos 45^\circ =$

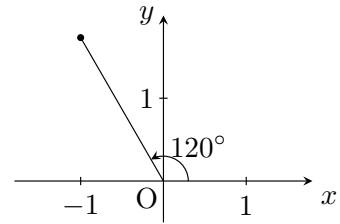
$\cos 60^\circ =$

$\tan 30^\circ =$

$\tan 45^\circ =$

$\tan 60^\circ =$

■ 120° の三角比

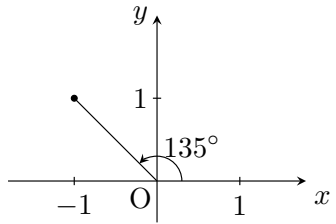


$\sin 120^\circ =$

$\cos 120^\circ =$

$\tan 120^\circ =$

■ 135° の三角比

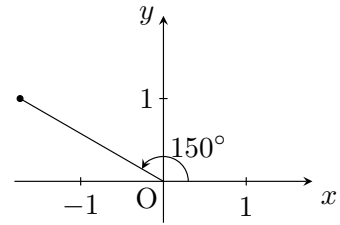


$\sin 135^\circ =$

$\cos 135^\circ =$

$\tan 135^\circ =$

■ 150° の三角比



$\sin 150^\circ =$

$\cos 150^\circ =$

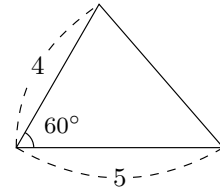
$\tan 150^\circ =$

(三角形の面積) = $\frac{1}{2} \times (\text{辺の長さ}) \times (\text{辺の長さ}) \times \sin(\text{間の角度})$

例題 右の三角形の面積を求めなさい。

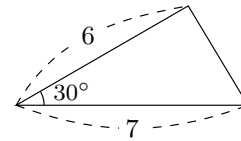
解

$$\begin{aligned} \text{面積} &= \frac{1}{2} \times 4 \times 5 \times \sin 60^\circ \\ &= \frac{1}{2} \times 4 \times 5 \times \frac{\sqrt{3}}{2} \\ &= \frac{1}{\cancel{2}} \times \cancel{4}^1 \times 5 \times \frac{\sqrt{3}}{\cancel{2}^1} \\ &= 5\sqrt{3} \end{aligned}$$

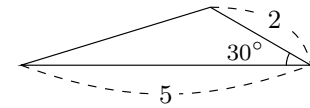


1 次の三角形の面積を求めなさい。

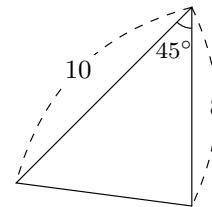
(1)



(2)



(3)



(4)

