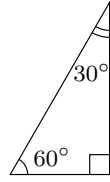
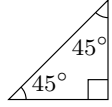
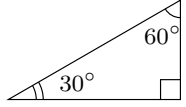


氏名 \_\_\_\_\_

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

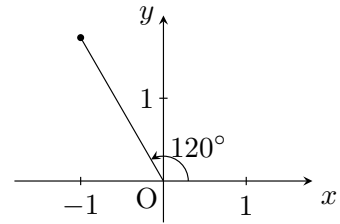


$$\begin{aligned} \sin 30^\circ &= \square \\ \cos 30^\circ &= \square \\ \tan 30^\circ &= \square \end{aligned}$$

$$\begin{aligned} \sin 45^\circ &= \square \\ \cos 45^\circ &= \square \\ \tan 45^\circ &= \square \end{aligned}$$

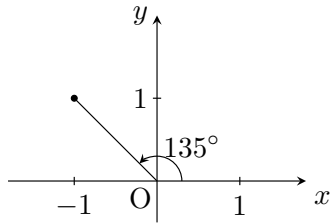
$$\begin{aligned} \sin 60^\circ &= \square \\ \cos 60^\circ &= \square \\ \tan 60^\circ &= \square \end{aligned}$$

■  $120^\circ$  の三角比



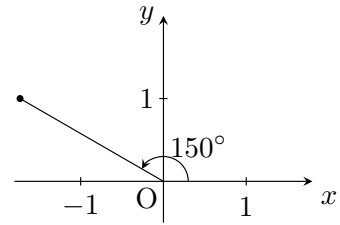
$$\begin{aligned} \sin 120^\circ &= \square \\ \cos 120^\circ &= \square \\ \tan 120^\circ &= \square \end{aligned}$$

■  $135^\circ$  の三角比



$$\begin{aligned} \sin 135^\circ &= \square \\ \cos 135^\circ &= \square \\ \tan 135^\circ &= \square \end{aligned}$$

■  $150^\circ$  の三角比

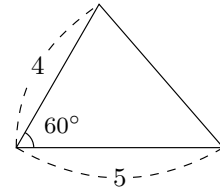


$$\begin{aligned} \sin 150^\circ &= \square \\ \cos 150^\circ &= \square \\ \tan 150^\circ &= \square \end{aligned}$$

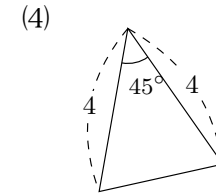
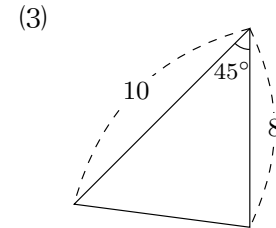
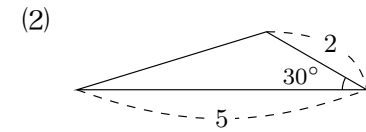
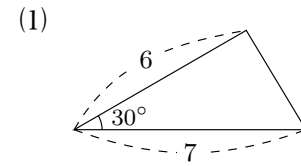
$$(\text{三角形の面積}) = \frac{1}{2} \times (\text{辺の長さ}) \times (\text{辺の長さ}) \times \sin(\text{間の角度})$$

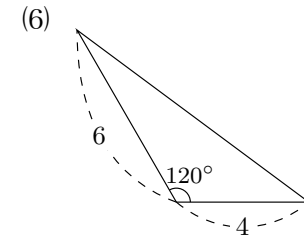
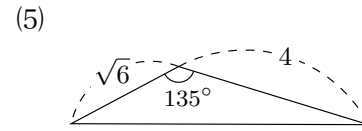
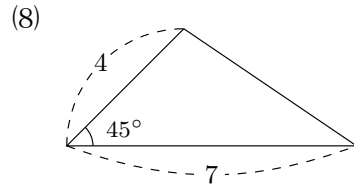
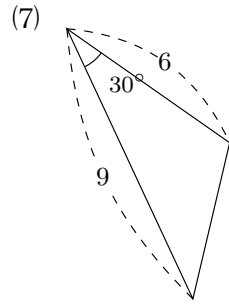
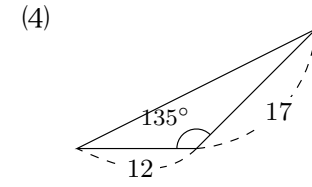
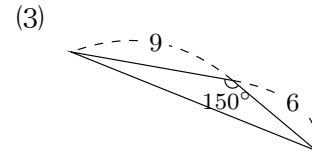
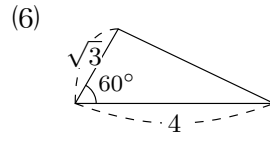
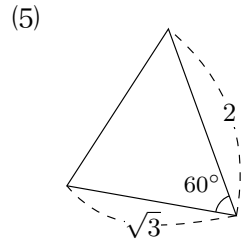
例題 右の三角形の面積を求めなさい。

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



1 次の三角形の面積を求めなさい。





■ 三角形の面積

次に  $120^\circ$ ,  $135^\circ$ ,  $150^\circ$  を使って、三角形の面積を計算しよう。

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

2 次の三角形の面積を求めなさい。

