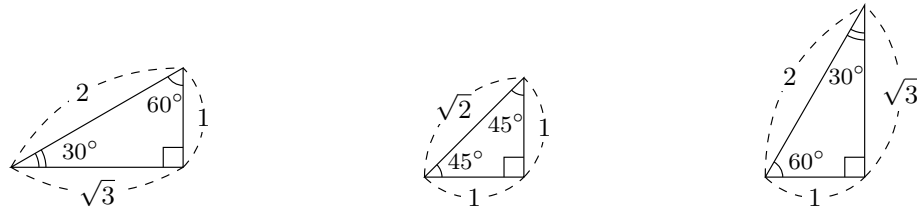


氏名 _____

■ 三角比の拡張

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

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



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

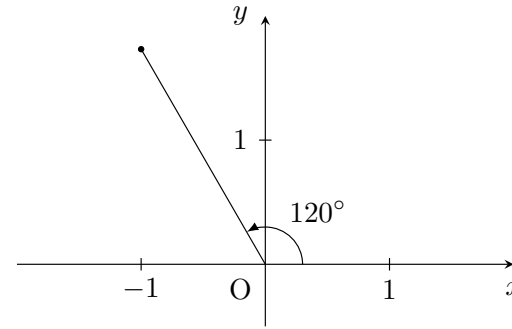
$$\begin{aligned} \sin 45^\circ &= \square \\ \cos 45^\circ &= \square \\ \tan 45^\circ &= \square \end{aligned}$$

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

$$\sin 150^\circ = \frac{1}{2}, \cos 150^\circ = \frac{-\sqrt{3}}{2}, \tan 150^\circ = \frac{-1}{\sqrt{3}}$$

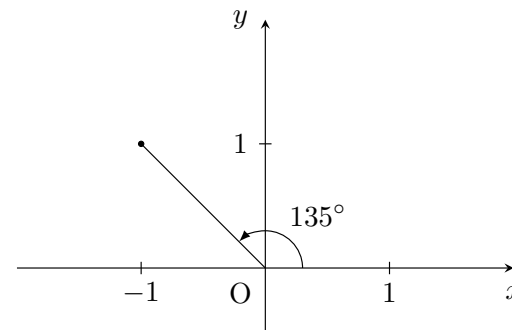
数学プリント#56 $\sin 30^\circ = \frac{1}{2}, \sin 45^\circ = \frac{1}{\sqrt{2}}, \sin 60^\circ = \frac{\sqrt{3}}{2}, \cos 30^\circ = \frac{\sqrt{3}}{2}, \cos 45^\circ = \frac{1}{\sqrt{2}}, \cos 60^\circ = \frac{1}{2}, \tan 30^\circ = \frac{1}{\sqrt{3}}, \tan 45^\circ = 1, \tan 60^\circ = \sqrt{3}, \sin 120^\circ = \frac{\sqrt{3}}{2}, \cos 120^\circ = \frac{-1}{2}, \tan 120^\circ = -\sqrt{3}, \sin 135^\circ = \frac{1}{\sqrt{2}}, \cos 135^\circ = \frac{-1}{\sqrt{2}}, \tan 135^\circ = -1$

■ 120° の三角比



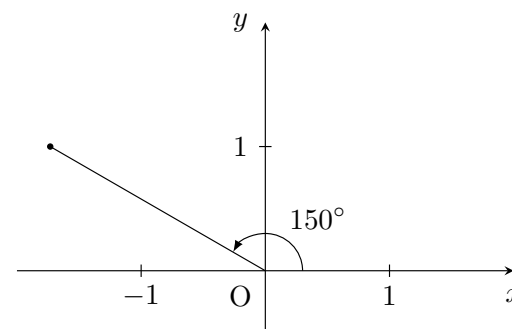
$$\begin{aligned} \sin 120^\circ &= \square \\ \cos 120^\circ &= \square \\ \tan 120^\circ &= \square \end{aligned}$$

■ 135° の三角比



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

■ 150° の三角比



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