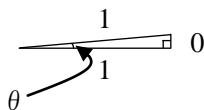
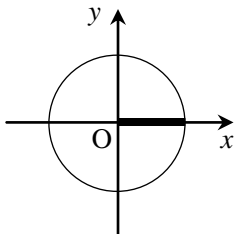


三角比の値

$\theta = 0^\circ$ のとき

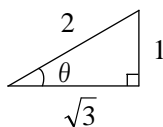
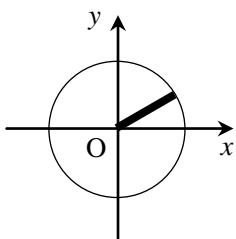


$$\sin 0^\circ = 0$$

$$\cos 0^\circ = 1$$

$$\tan 0^\circ = 0$$

$\theta = 30^\circ$ のとき

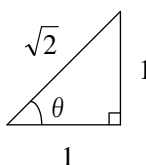
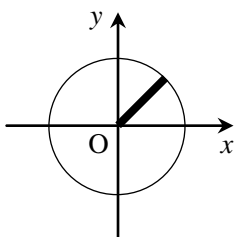


$$\sin 30^\circ = \frac{1}{2}$$

$$\cos 30^\circ = \frac{\sqrt{3}}{2}$$

$$\tan 30^\circ = \frac{1}{\sqrt{3}}$$

$\theta = 45^\circ$ のとき

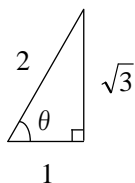
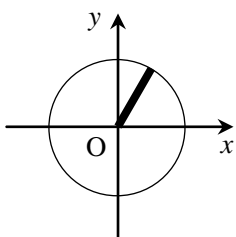


$$\sin 45^\circ = \frac{1}{\sqrt{2}}$$

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

$$\tan 45^\circ = 1$$

$\theta = 60^\circ$ のとき

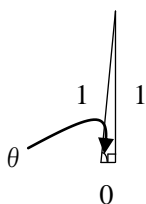
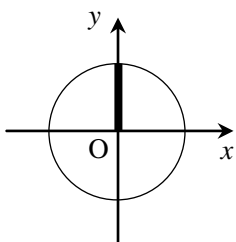


$$\sin 60^\circ = \frac{\sqrt{3}}{2}$$

$$\cos 60^\circ = \frac{1}{2}$$

$$\tan 60^\circ = \sqrt{3}$$

$\theta = 90^\circ$ のとき



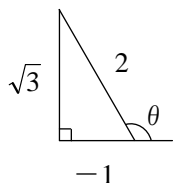
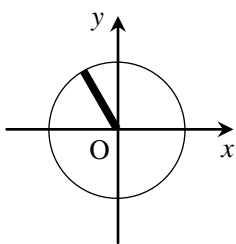
$$\sin 90^\circ = 1$$

$$\cos 90^\circ = 0$$

$$\tan 90^\circ \cdots \text{なし}$$

Math-Aquarium 【練習プリント+解答】 三角比の値

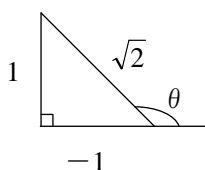
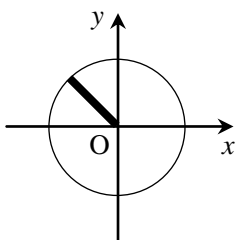
$\theta = 120^\circ$ のとき



$$\sin 120^\circ = \frac{\sqrt{3}}{2} \quad \cos 120^\circ = -\frac{1}{2}$$

$$\tan 120^\circ = -\sqrt{3}$$

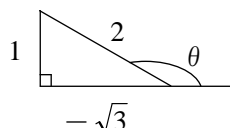
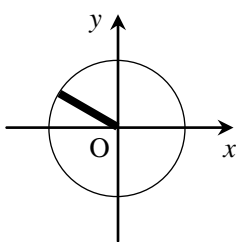
$\theta = 135^\circ$ のとき



$$\sin 135^\circ = \frac{1}{\sqrt{2}} \quad \cos 135^\circ = -\frac{1}{\sqrt{2}}$$

$$\tan 135^\circ = -1$$

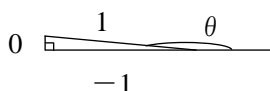
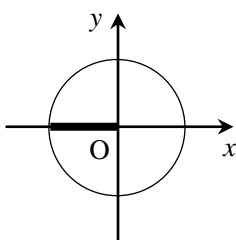
$\theta = 150^\circ$ のとき



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

$$\tan 150^\circ = -\frac{1}{\sqrt{3}}$$

$\theta = 180^\circ$ のとき



$$\sin 180^\circ = 0 \quad \cos 180^\circ = -1$$

$$\tan 180^\circ = 0$$

練習問題 $0^\circ \leq \theta \leq 180^\circ$ のとき、次の等式を満たす θ を求めよ。

(1) $\sin \theta = \frac{1}{\sqrt{2}}$

$\theta = 45^\circ, 135^\circ$

(2) $\cos \theta = -\frac{1}{2}$

$\theta = 120^\circ$

(3) $\tan \theta = -\sqrt{3}$

$\theta = 120^\circ$

(4) $\cos \theta = -1$

$\theta = 180^\circ$

(5) $\tan \theta = 0$

$\theta = 0^\circ, 180^\circ$

(6) $\sin \theta = 1$

$\theta = 90^\circ$