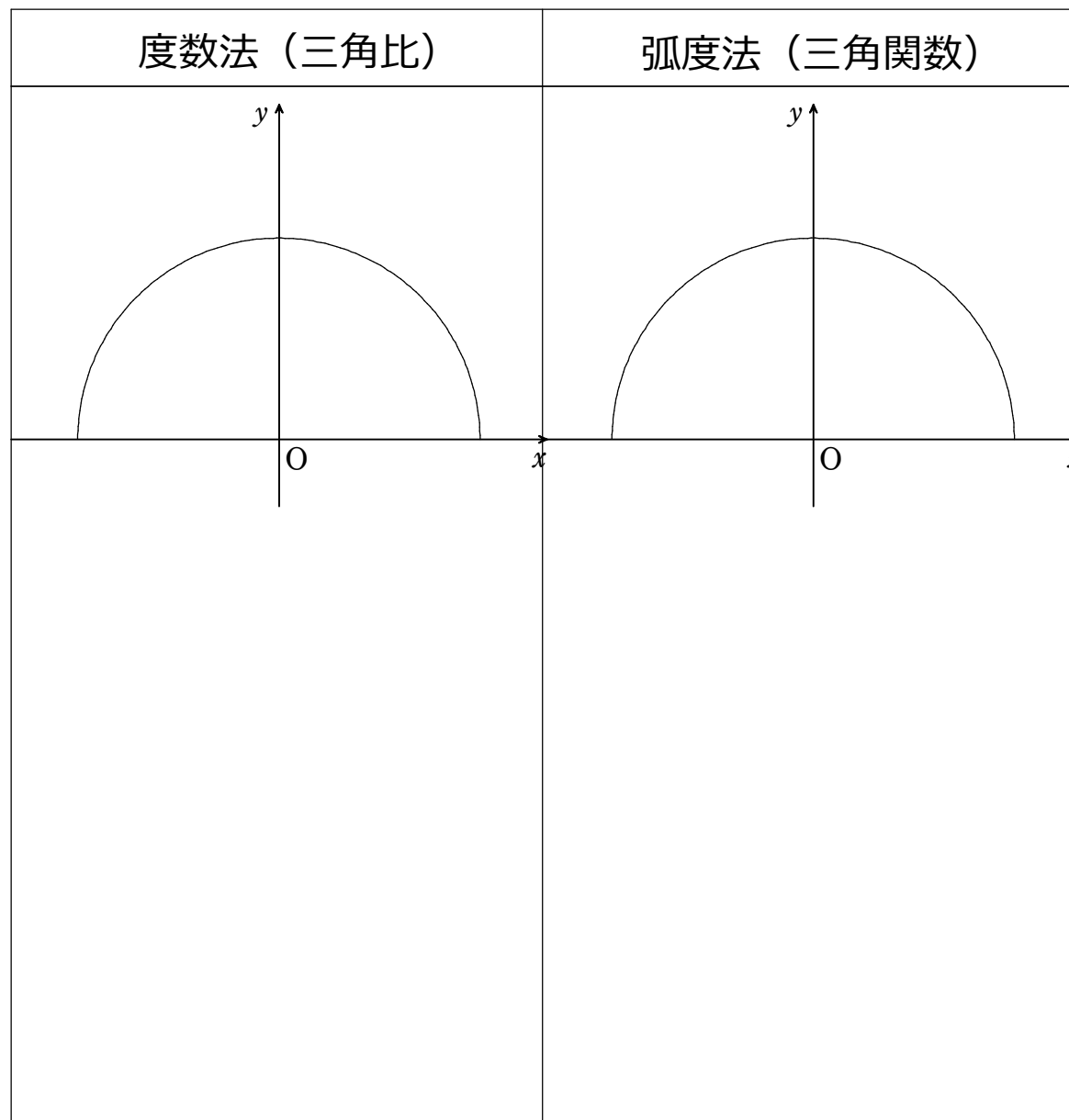


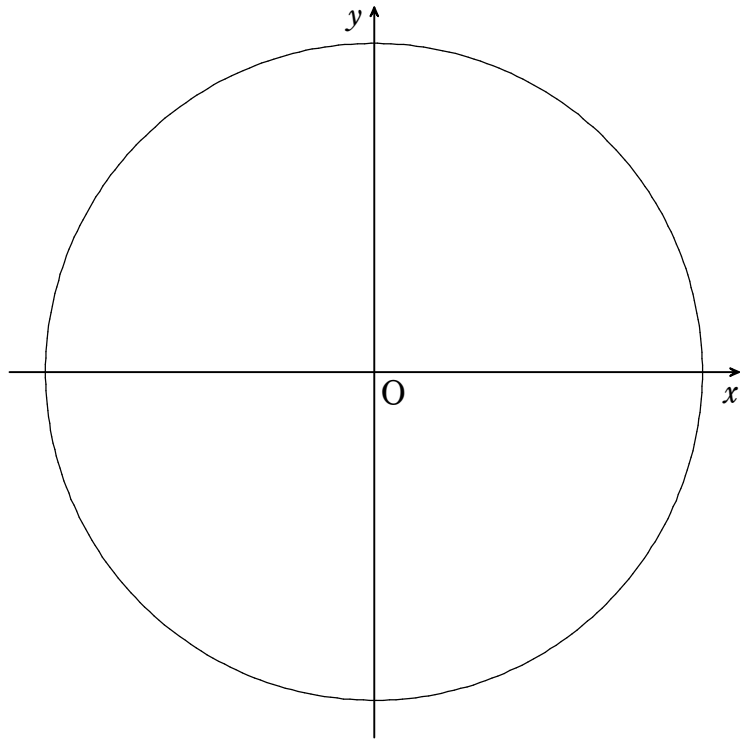
1 弧度法の練習



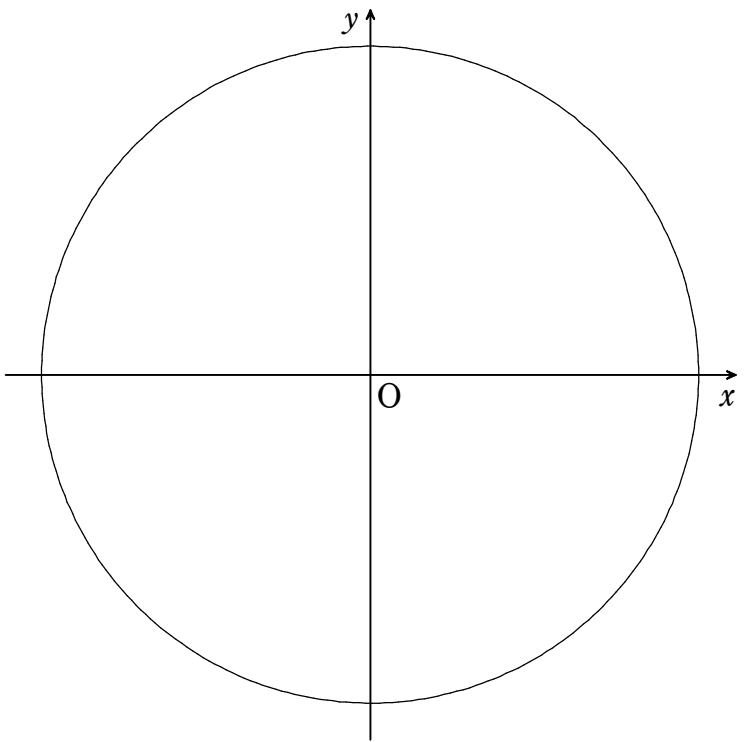
度数法	0°	30°	45°	60°	90°	120°	135°	150°	180°
弧度法	0								$\pi$

度数法	180°	210°	225°	240°	270°	300°	315°	330°	360°
弧度法	$\pi$								$2\pi$

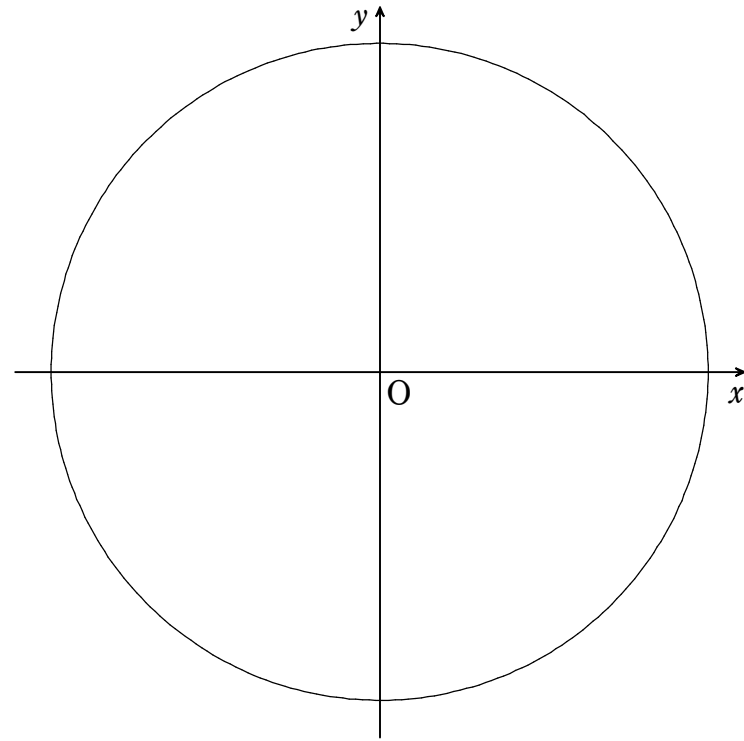
$\frac{\pi}{2}$



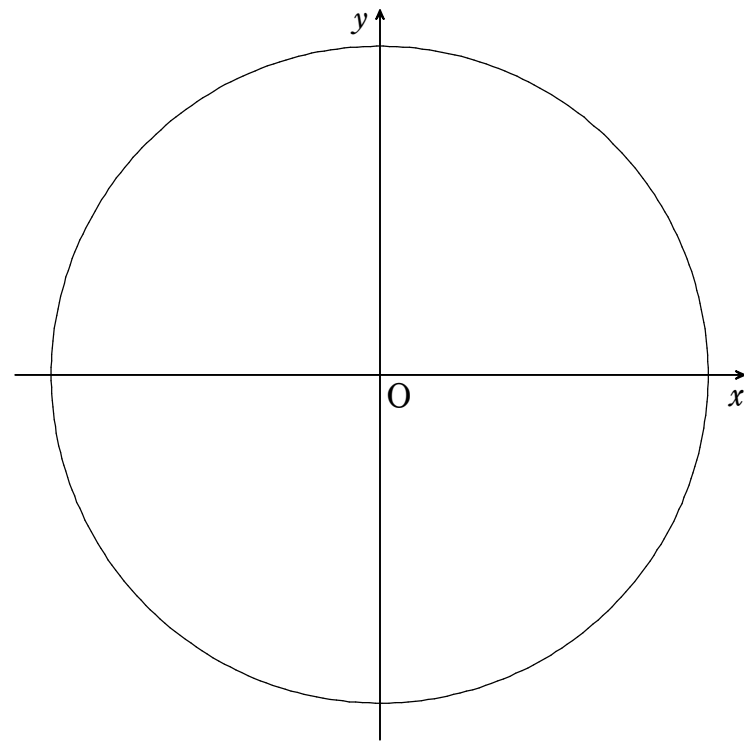
$\frac{\pi}{6}$



$\frac{\pi}{4}$



$\frac{\pi}{3}$



2 次の値を求めよ。

(1)  $\sin \frac{\pi}{6}$

(2)  $\sin \frac{\pi}{4}$

(3)  $\sin \frac{\pi}{3}$

(4)  $\cos \frac{\pi}{6}$

(5)  $\cos \frac{\pi}{4}$

(6)  $\cos \frac{\pi}{3}$

(7)  $\tan \frac{\pi}{6}$

(8)  $\tan \frac{\pi}{4}$

(9)  $\tan \frac{\pi}{3}$

3 次の値を求めよ。

(1)  $\sin 0$

(2)  $\cos \frac{\pi}{6}$

(3)  $\tan \frac{\pi}{4}$

(4)  $\sin \frac{\pi}{3}$

(5)  $\cos \frac{\pi}{2}$

(6)  $\tan \frac{2}{3}\pi$

(7)  $\sin \frac{3}{4}\pi$

(8)  $\cos \frac{5}{6}\pi$

(9)  $\tan \pi$

(10)  $\sin \frac{7}{6}\pi$

(11)  $\cos \frac{5}{3}\pi$

(12)  $\tan \frac{11}{6}\pi$

4  $0 \leq \theta < 2\pi$  のとき、次の方程式を解け。

(1)  $\sin \theta = 0$

(2)  $\cos \theta = 0$

(3)  $\tan \theta = 0$

(4)  $\sin \theta = 1$

(5)  $\cos \theta = 1$

(6)  $\tan \theta = 1$

$$(7) \sin \theta = \frac{1}{2}$$

$$(8) \cos \theta = -\frac{1}{2}$$

$$(9) \tan \theta = -\sqrt{3}$$

$$(10) \sin \theta = \frac{\sqrt{3}}{2}$$

$$(11) \cos \theta = -\frac{\sqrt{3}}{2}$$

$$(12) \tan \theta = \frac{1}{\sqrt{3}}$$

5  $0 \leq \theta < 2\pi$  のとき、次の不等式を解け。

(1)  $\sin \theta > \frac{1}{2}$

(2)  $\sin \theta \leq \frac{\sqrt{3}}{2}$

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

(4)  $\tan \theta \geq 1$