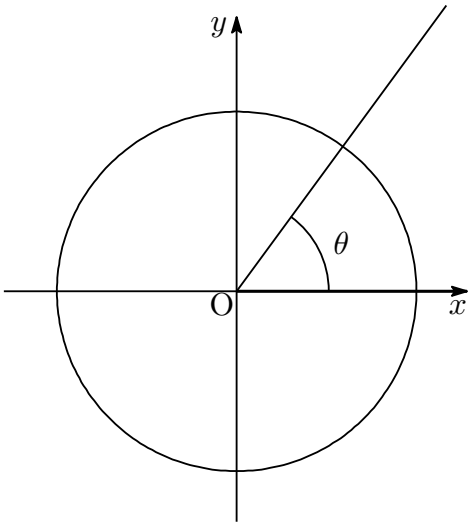
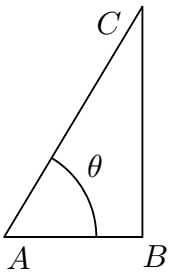
三角関数の計算

【定義】

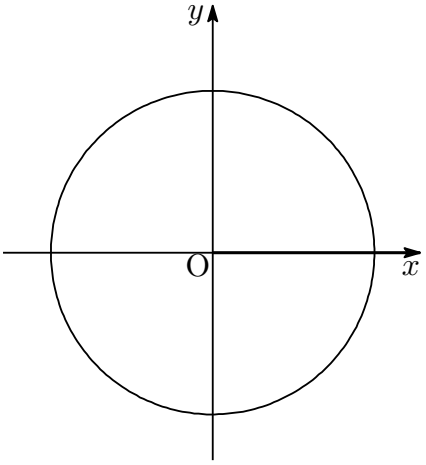


左図で示された θ に対して,
$\sin\theta$, $\cos\theta$, $\tan\theta$ を図示せよ.



【問題】θ が次で与えられたとき, 角 θ を図示し, $\sin\theta$, $\cos\theta$, $\tan\theta$ の値を記入せよ. また空欄を埋めよ. (注意:角度は正確に書きましょう)

$\theta = \dfrac{2}{3}\pi$

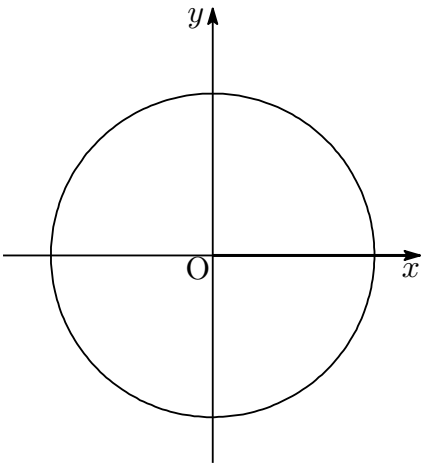


$$\sin\frac{2}{3}\pi = \sin\boxed{}$$

$$\cos\frac{2}{3}\pi = \cos\boxed{}$$

$$\tan\frac{2}{3}\pi = \tan\boxed{}$$

$\theta = \frac{7}{5}\pi$

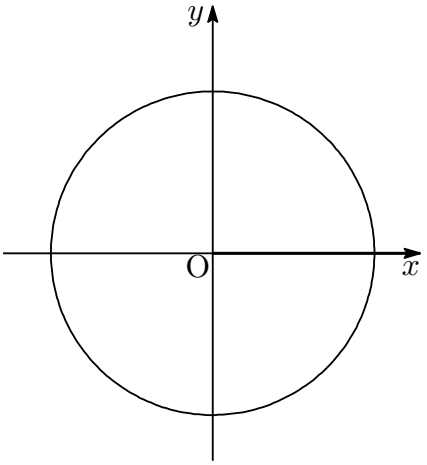


$\sin \frac{7}{5}\pi = \sin$ ☐

$\cos \frac{7}{5}\pi = \cos$ ☐

$\tan \frac{7}{5}\pi = \tan$ ☐

$\theta = \frac{4}{7}\pi$

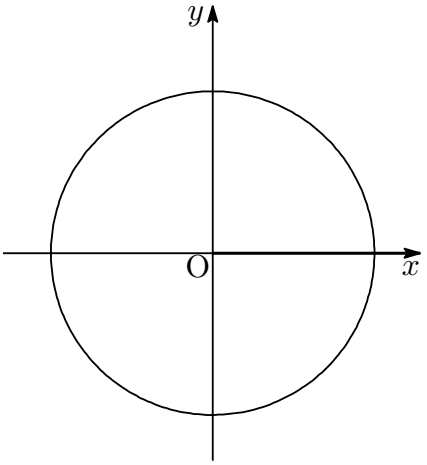


$\sin \frac{4}{7}\pi = \sin$ ☐

$\cos \frac{4}{7}\pi = \cos$ ☐

$\tan \frac{4}{7}\pi = \tan$ ☐

$\theta = \frac{11}{8}\pi$



$\sin \frac{11}{8}\pi = \sin$ ☐

$\cos \frac{11}{8}\pi = \cos$ ☐

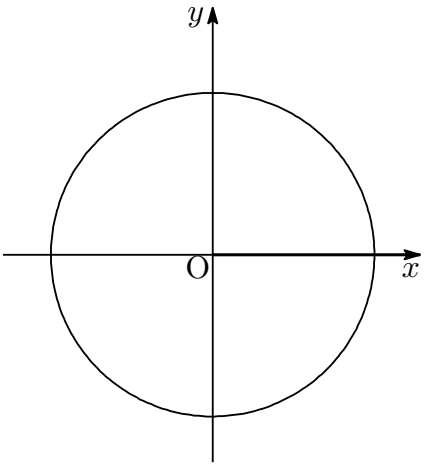
$\tan \frac{11}{8}\pi = \tan$ ☐

$\sin(-\theta) =$ $\square$ $\sin$ $\square$

$\cos(-\theta) =$ $\square$ $\cos$ $\square$

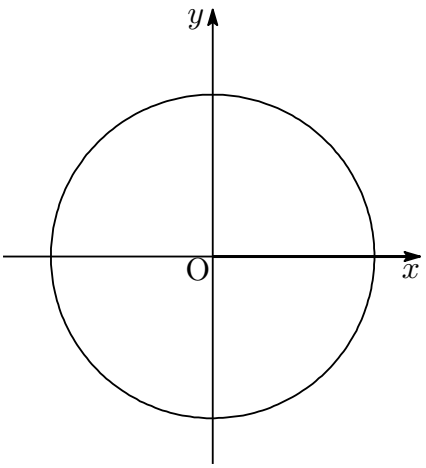
$\tan(-\theta) =$ $\square$ $\tan$ $\square$

$\sin\theta$ と $\cos\theta$ の入れ替え



$\sin\frac{2}{3}\pi = \cos$ $\square$

$\cos\frac{2}{3}\pi = \sin$ $\square$



$\sin\frac{7}{5}\pi = \cos$ $\square$

$\cos\frac{7}{5}\pi = \sin$ $\square$