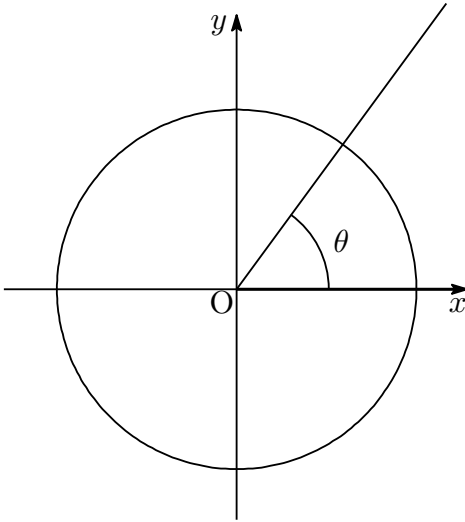
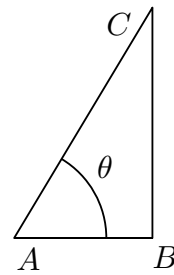


## 三角関数の計算

【定義】

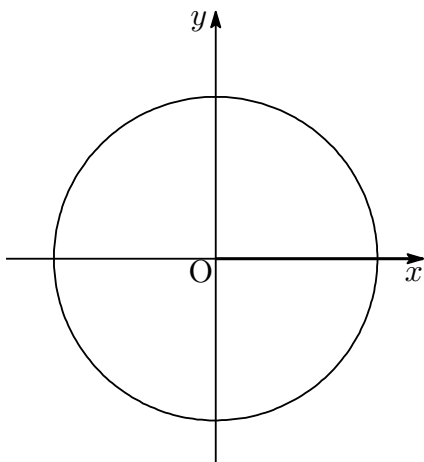


左図で示された  $\theta$  に対して、  
 $\sin \theta$ ,  $\cos \theta$ ,  $\tan \theta$  を図示せよ.



【問題】  $\theta$  が次で与えられたとき、角  $\theta$  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)

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

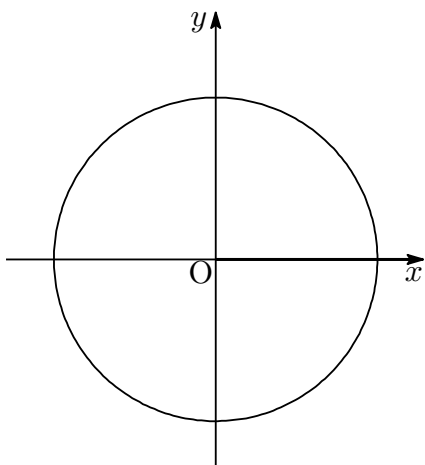


$$\sin \frac{2}{3}\pi = \sin \boxed{\phantom{000}}$$

$$\cos \frac{2}{3}\pi = \cos \boxed{\phantom{000}}$$

$$\tan \frac{2}{3}\pi = \tan \boxed{\phantom{000}}$$

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

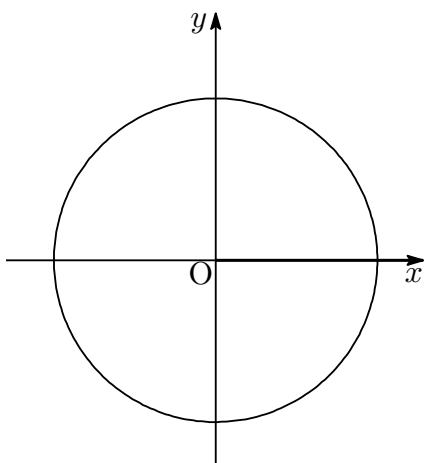


$$\sin \frac{7}{5}\pi = \sin \boxed{\phantom{000}}$$

$$\cos \frac{7}{5}\pi = \cos \boxed{\phantom{000}}$$

$$\tan \frac{7}{5}\pi = \tan \boxed{\phantom{000}}$$

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

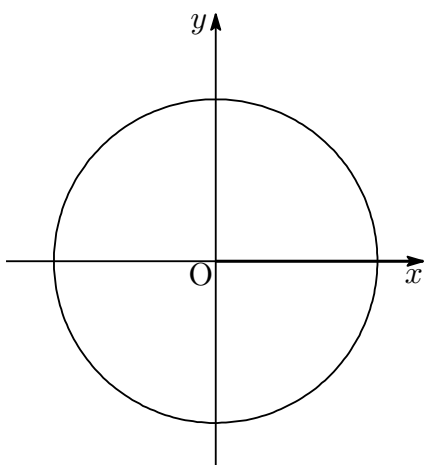


$$\sin \frac{4}{7}\pi = \sin \boxed{\phantom{000}}$$

$$\cos \frac{4}{7}\pi = \cos \boxed{\phantom{000}}$$

$$\tan \frac{4}{7}\pi = \tan \boxed{\phantom{000}}$$

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



$$\sin \frac{11}{8}\pi = \sin \boxed{\phantom{000}}$$

$$\cos \frac{11}{8}\pi = \cos \boxed{\phantom{000}}$$

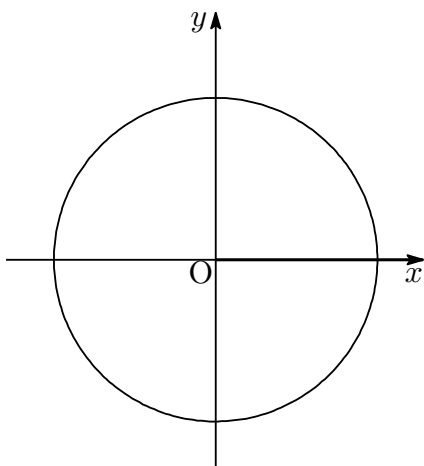
$$\tan \frac{11}{8}\pi = \tan \boxed{\phantom{000}}$$

$$\sin(-\theta) = \boxed{\phantom{000}} \sin \boxed{\phantom{000}}$$

$$\cos(-\theta) = \boxed{\phantom{000}} \cos \boxed{\phantom{000}}$$

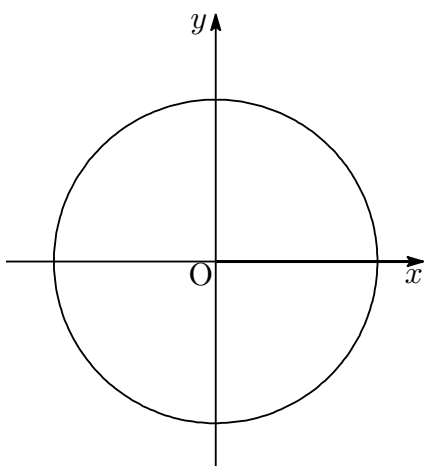
$$\tan(-\theta) = \boxed{\phantom{000}} \tan \boxed{\phantom{000}}$$

$\sin \theta$  と  $\cos \theta$  の入れ替え



$$\sin \frac{2}{3}\pi = \cos \boxed{\phantom{000}}$$

$$\cos \frac{2}{3}\pi = \sin \boxed{\phantom{000}}$$



$$\sin \frac{7}{5}\pi = \cos \boxed{\phantom{000}}$$

$$\cos \frac{7}{5}\pi = \sin \boxed{\phantom{000}}$$