

# 三角形の性質③

## 数Ⅱ(三角関数の性質③)

次の値を求めよう。

①  $\sin \frac{7}{3}\pi$

②  $\cos \frac{11}{4}\pi$

③  $\tan \frac{19}{4}\pi$

④  $\sin(-\frac{\pi}{6})$

⑤  $\cos(-\frac{\pi}{3})$

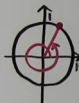
⑥  $\tan(-\frac{\pi}{6})$

## 数Ⅱ(三角関数の性質③)

次の値を求めよう。

①  $\sin \frac{7}{3}\pi$

$\sin(2\pi + \frac{\pi}{3})$   
 $= \sin \frac{\pi}{3} = \frac{\sqrt{3}}{2}$



②  $\cos \frac{11}{4}\pi$

$\cos \frac{3}{4}\pi = -\frac{1}{\sqrt{2}}$

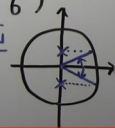
$0 < \theta < \pi$

③  $\tan \frac{19}{4}\pi$

$\tan \frac{3}{4}\pi = -1$

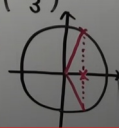
④  $\sin(-\frac{\pi}{6})$

$= -\sin \frac{\pi}{6}$   
 $= -\frac{1}{2}$



⑤  $\cos(-\frac{\pi}{3})$

$= \cos \frac{\pi}{3}$   
 $= \frac{1}{2}$



⑥  $\tan(-\frac{\pi}{6})$

$= -\tan \frac{\pi}{6}$   
 $= -\frac{1}{\sqrt{3}}$

