

三角関数の性質④

数Ⅱ(三角関数の性質④)

次の値を求めよう。

① $\sin \frac{4}{3}\pi$

② $\cos \frac{11}{6}\pi$

③ $\tan \frac{7}{6}\pi$

⑩

$\sin(\frac{\pi}{2} + \theta) = \underline{\hspace{1cm}}$ $\sin(\frac{\pi}{2} - \theta) = \underline{\hspace{1cm}}$ $\sin(\pi - \theta) = \underline{\hspace{1cm}}$

$\cos(\frac{\pi}{2} + \theta) = \underline{\hspace{1cm}}$ $\cos(\frac{\pi}{2} - \theta) = \underline{\hspace{1cm}}$ $\cos(\pi - \theta) = \underline{\hspace{1cm}}$

$\tan(\frac{\pi}{2} + \theta) = \underline{\hspace{1cm}}$ $\tan(\frac{\pi}{2} - \theta) = \underline{\hspace{1cm}}$ $\tan(\pi - \theta) = \underline{\hspace{1cm}}$

数Ⅱ(三角関数の性質④)

⑩ 次の値を求めよう。

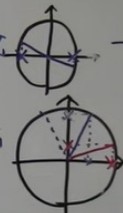
① $\sin \frac{4}{3}\pi$

$= -\sin \frac{\pi}{3}$
 $= -\frac{\sqrt{3}}{2}$



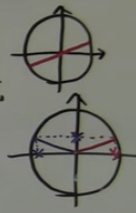
② $\cos \frac{11}{6}\pi$

$= -\cos \frac{5}{6}\pi$
 $= \frac{\sqrt{3}}{2}$



③ $\tan \frac{7}{6}\pi$

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



⑪

$\sin(\frac{\pi}{2} + \theta) = \underline{\cos \theta}$ $\sin(\frac{\pi}{2} - \theta) = \underline{\cos \theta}$ $\sin(\pi - \theta) = \underline{\sin \theta}$

$\cos(\frac{\pi}{2} + \theta) = \underline{-\sin \theta}$ $\cos(\frac{\pi}{2} - \theta) = \underline{\sin \theta}$ $\cos(\pi - \theta) = \underline{-\cos \theta}$

$\tan(\frac{\pi}{2} + \theta) = \underline{-\frac{1}{\tan \theta}}$ $\tan(\frac{\pi}{2} - \theta) = \underline{\frac{1}{\tan \theta}}$ $\tan(\pi - \theta) = \underline{-\tan \theta}$