

p. 870) 3-11

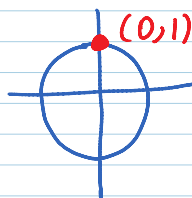
- ③ $\frac{\pi}{2}, 90^\circ$ ④ $-\frac{\pi}{4}, -45^\circ$ ⑤ $\frac{\pi}{2}, 90^\circ$ ⑥ undefined
- ⑦ $\frac{\pi}{3}, 60^\circ$ ⑧ $\frac{\pi}{6}, 30^\circ$ ⑨ $-\frac{\pi}{6}, -30^\circ$ ⑩ $\frac{2\pi}{3}, 120^\circ$
- ⑪ C

Solutions

③ $\sin^{-1} 1 \Rightarrow \sin \theta = 1$

$\theta = (\quad, 1)$

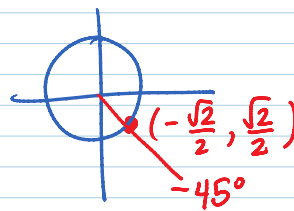
$$\boxed{\frac{\pi}{2}, 90^\circ}$$



④ $\tan^{-1}(-1) \Rightarrow \tan \theta = -1$

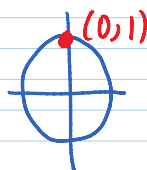
$$\frac{\sin \theta}{\cos \theta} = -1 = \frac{-\frac{\sqrt{2}}{2}}{\frac{\sqrt{2}}{2}}$$

$$\boxed{-\frac{\pi}{4}, -45^\circ}$$



⑤ $\cos^{-1} 0 \Rightarrow \cos \theta = 0$

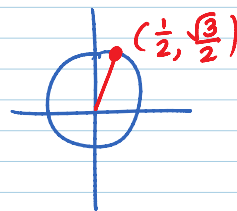
$$\boxed{\frac{\pi}{2}, 90^\circ}$$



$$\textcircled{6} \cos^{-1}(2) \Rightarrow \cos \theta = 2$$

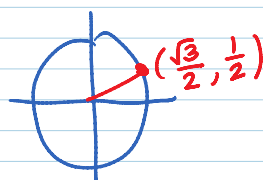
undefined

$$\textcircled{7} \sin^{-1} \frac{\sqrt{3}}{2} \Rightarrow \sin \theta = \frac{\sqrt{3}}{2}$$
$$\theta = \left(\quad, \frac{\sqrt{3}}{2} \right)$$



$\frac{\pi}{3}, 60^\circ$

$$\textcircled{8} \sin^{-1} \frac{1}{2} \Rightarrow \sin \theta = \frac{1}{2}$$
$$\theta = \left(\quad, \frac{1}{2} \right)$$



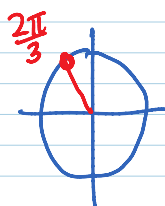
$\frac{\pi}{6}, 30^\circ$

$$\textcircled{9} \tan^{-1} \left(-\frac{\sqrt{3}}{3}\right) \Rightarrow \tan \theta = -\frac{\sqrt{3}}{3}$$

$-\frac{\pi}{6}, -30^\circ$

$$\frac{\sin}{\cos} = \frac{\frac{1}{2}}{\frac{\sqrt{3}}{2}} \Rightarrow \left(\frac{\sqrt{3}}{2}, -\frac{1}{2}\right)$$

$$\textcircled{10} \cos^{-1} \left(-\frac{1}{2}\right) \Rightarrow \cos \theta = -\frac{1}{2}$$
$$\theta = \left(-\frac{1}{2}, \frac{\sqrt{3}}{2}\right)$$



$$\textcircled{11} \cos^{-1} \left(\frac{\sqrt{2}}{2}\right) \Rightarrow \cos \theta = \frac{\sqrt{2}}{2}$$
$$\theta = \left(\frac{\sqrt{2}}{2}, \frac{\sqrt{2}}{2}\right)$$

$\frac{\pi}{4}, 45^\circ$ C