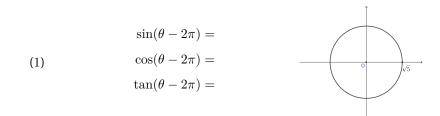
신비, 미니테스트 3

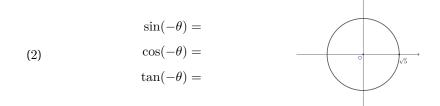
문제 1) 각도 θ 의 동경을 OP 라고 할 때, P=(2,1) 이다.

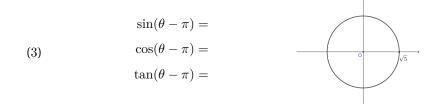
 $\sin \theta = \frac{1}{\sqrt{5}}$ $\cos \theta = \frac{2}{\sqrt{5}}$ $\tan \theta = \frac{1}{2}$

이때 다음 각도들에 대한 삼각비의 값을 차례로 구하여라.

(1) $\theta - 2\pi$ (2) $-\theta$ (3) $\theta - \pi$ (4) $\frac{\pi}{2} - \theta$







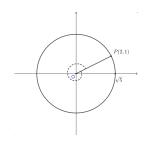
$$\sin\left(\frac{\pi}{2} - \theta\right) = \\
\cos\left(\frac{\pi}{2} - \theta\right) = \\
\tan\left(\frac{\pi}{2} - \theta\right) = \\$$

답 1)

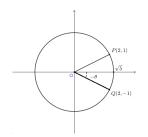
(1)
$$\sin(\theta - 2\pi) = \frac{1}{\sqrt{5}}$$

$$\cos(\theta - 2\pi) = \frac{2}{\sqrt{5}}$$

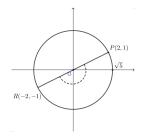
$$\tan(\theta - 2\pi) = \frac{1}{2}$$



(2)
$$\sin(-\theta) = -\frac{1}{\sqrt{5}}$$
$$\cos(-\theta) = \frac{2}{\sqrt{5}}$$
$$\tan(-\theta) = -\frac{1}{2}$$



(3)
$$\sin(\theta - \pi) = -\frac{1}{\sqrt{5}}$$
$$\cos(\theta - \pi) = -\frac{2}{\sqrt{5}}$$
$$\tan(\theta - \pi) = \frac{1}{2}$$



(4)
$$\sin(\frac{\pi}{2} - \theta) = \frac{2}{\sqrt{5}}$$

$$\cos(\frac{\pi}{2} - \theta) = \frac{1}{\sqrt{5}}$$

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

