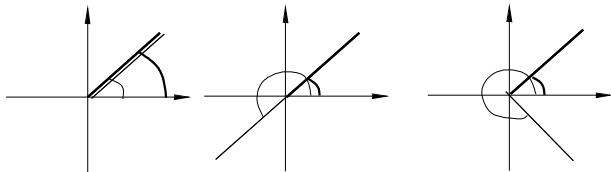


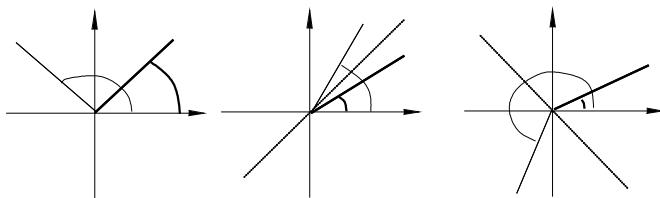
1. 두 동경 α, β 가 있다.

- (1) 일치 (2) 반대쪽으로 일직선상 (3) x 축 대칭



$$\begin{aligned}\alpha - \beta &= 360^\circ n & \alpha - \beta &= 360^\circ n + 180^\circ \\&= 2n\pi & &= 2n\pi + \pi \\&& \alpha + \beta &= 360^\circ n \\&& &= 2n\pi\end{aligned}$$

- (4) y 축 대칭 (5) $y = x$ 대칭 (6) $y = -x$ 대칭



$$(4) \alpha + \beta = 360^\circ n + 180^\circ = 2n\pi + \pi$$

$$(5) \alpha + \beta = 360^\circ n + 90^\circ = 2n\pi + \frac{\pi}{2}$$

$$(6) \alpha + \beta = 360^\circ n + 270^\circ = 2n\pi + \frac{3}{2}\pi$$

예제1

$90^\circ < \theta < 180^\circ$ 일 때 θ 와 6θ 가 일치

$$\sin(\theta + 6^\circ) = ?$$

$$\rightarrow 60 - \theta = 360^\circ n \quad 5\theta = 360^\circ n \quad \theta = 72^\circ n$$

$$90^\circ < 72^\circ n < 180^\circ$$

$$n = 2, \quad \theta = 144^\circ$$

$$\therefore \sin(\theta + 6^\circ) = \sin 150^\circ = \sin 30^\circ = \frac{1}{2}$$