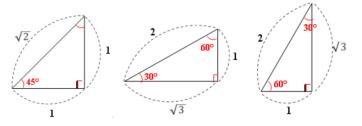
- ♦ 교과서 문제 풀이입니다.
- ◆ 문제풀이 및 해설은 오른쪽 qr코드와 같습니다.
- ♦ 함께 열심히 해 봅시다.



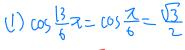
개념 1.

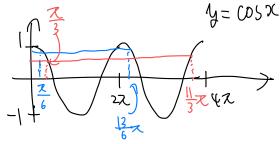


개념 2. 사인 함수의 그래프

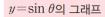
문제 1. 사인함수, 코사인함수의 그래프의 성질을 이용하여 다음 삼각함수의 값을 구하시오.

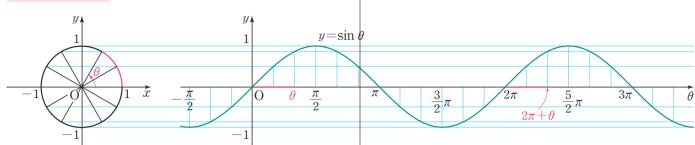
(1)
$$\cos \frac{13}{6}\pi$$
 (2) $\sin \frac{25}{6}\pi$ (3) $\sin \frac{7}{4}\pi$ (4) $\cos \frac{11}{3}\pi$





(4) $\cos \frac{11}{3}\pi = \cos \frac{7}{3} = \frac{1}{2}$

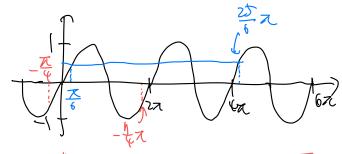


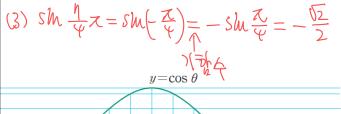


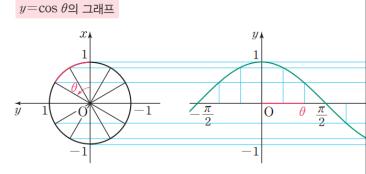
- 1. 원점 대칭(기함수), $\sin(-x) = -\sin x$ 서 및 기
- $2. 주기 = 2\pi$
- 3. 최댓값 1, 최솟값 -1

개념 3. 코사인 함수의 그래프







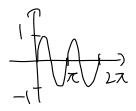


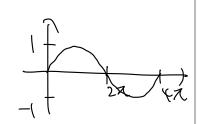
- 2. 주기 = 2π
- 3. 최댓값 1, 최솟값 -1

다음 함수의 주기와 치역을 구하고, 그 그래프를 그리시오.

예제 1. y = sin 2x

$$y = \sin\frac{1}{2}x$$



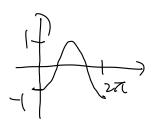


문제 **2.** (1)
$$y = \cos 2x$$

$$y = -\cos x$$

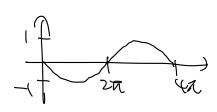
$$\frac{2\pi}{2} = \frac{2\pi}{L} = \pi$$

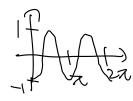




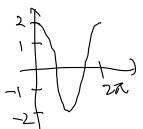
$$(2) y = -\sin\frac{x}{2}$$

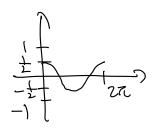
$$y = -\cos 2x$$





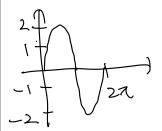
$$y = \frac{1}{2}\cos x$$

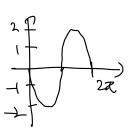




문제 3. (1)
$$y = 2 \sin x$$

$$y = -2\sin x$$





$$(2) \ y = \frac{1}{2}\cos x + 1$$

$$y = \cos\left(\frac{\pi}{2} + x\right)$$

