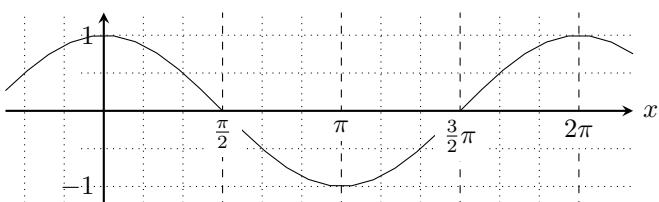


例 1 $0 \leq \theta < 2\pi$ のとき、不等式 $\cos \theta < \frac{\sqrt{3}}{2}$ を満たす θ の範囲を求めよ。

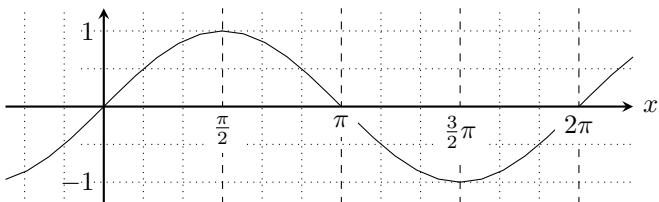


答

問 1 $0 \leq \theta < 2\pi$ のとき、次の不等式を満たす θ の範囲を求めよ。

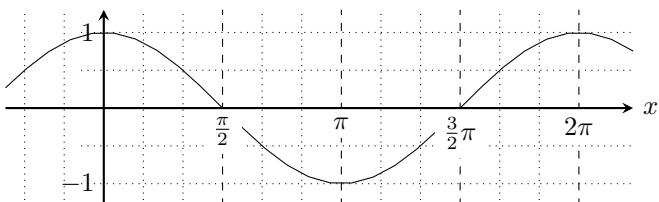
- (1) $\sin \theta > \frac{1}{2}$
 (2) $\cos \theta \leq \frac{\sqrt{2}}{2}$

(1) $\sin \theta > \frac{1}{2}$



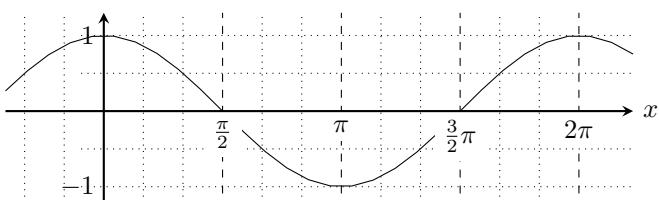
答

(2) $\cos \theta \leq -\frac{\sqrt{2}}{2}$



答

例 2 $0 \leq \theta < 2\pi$ のとき、不等式 $\cos \theta > \frac{1}{2}$ を満たす θ の範囲を求めよ。

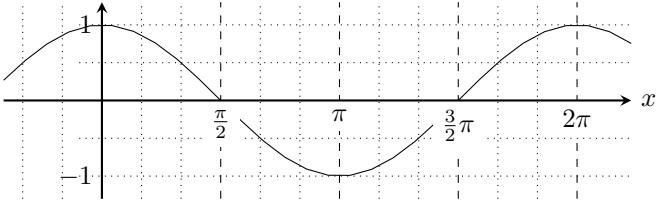


答

問 2 $0 \leq \theta < 2\pi$ のとき、次の不等式を満たす θ の範囲を求めよ。

- (1) $\cos \theta > -\frac{\sqrt{2}}{2}$
 (2) $2 \sin \theta - \sqrt{3} \leq 0$

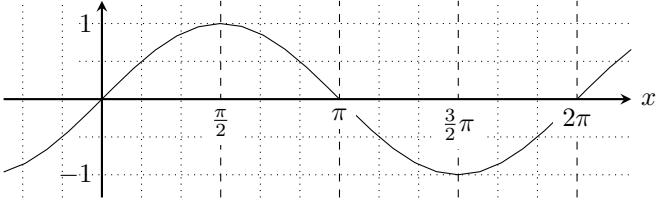
(1) $\cos \theta > -\frac{\sqrt{2}}{2}$



答

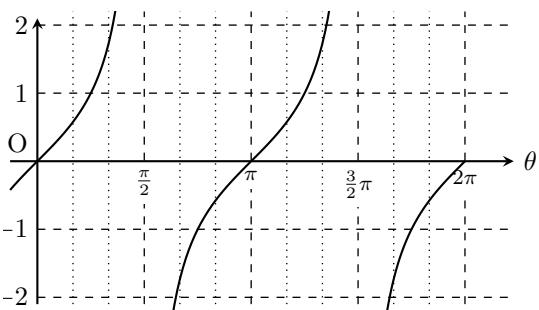
(2) $2 \sin \theta - \sqrt{3} \leq 0$

$$\sin \theta \leq \frac{\sqrt{3}}{2}$$



答

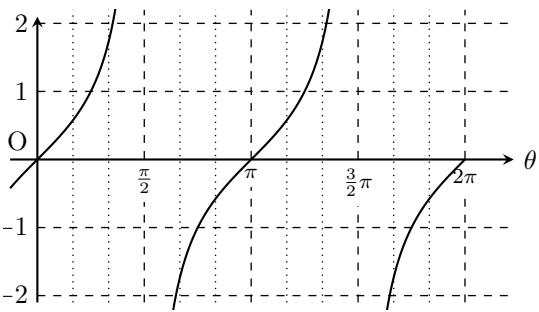
例 3 $0 \leq \theta < 2\pi$ のとき、不等式 $\tan \theta > 1$ を満たす θ の範囲を求めよ。



答

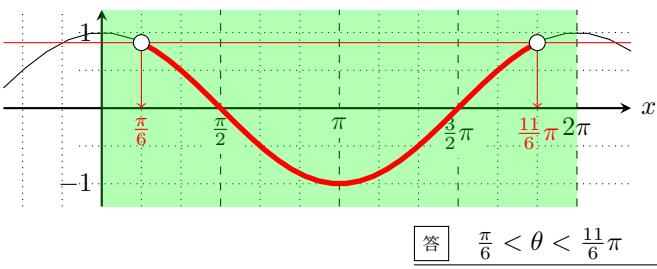
問 3 $0 \leq \theta < 2\pi$ のとき、不等式 $\sqrt{3} \tan \theta + 1 \leq 0$ を満たす θ の範囲を求めよ。

$$\tan \theta \leq -\frac{1}{\sqrt{3}}$$



答

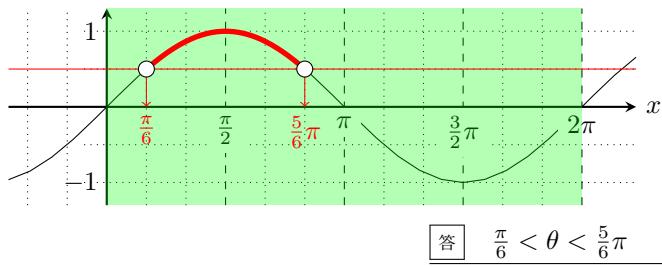
例 1 $0 \leq \theta < 2\pi$ のとき、不等式 $\cos \theta < \frac{\sqrt{3}}{2}$ を満たす θ の範囲を求めよ。



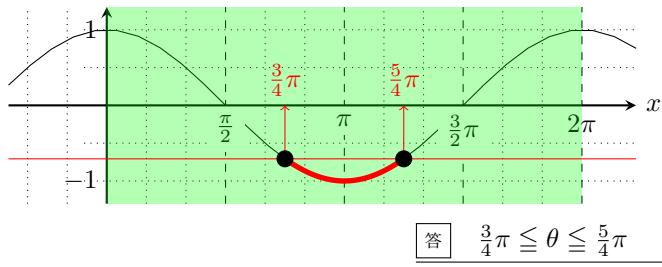
問1 $0 \leq \theta < 2\pi$ のとき、次の不等式を満たす θ の範囲を求めよ。

- (1) $\sin \theta > \frac{1}{2}$
 (2) $\cos \theta \leq \frac{\sqrt{2}}{2}$

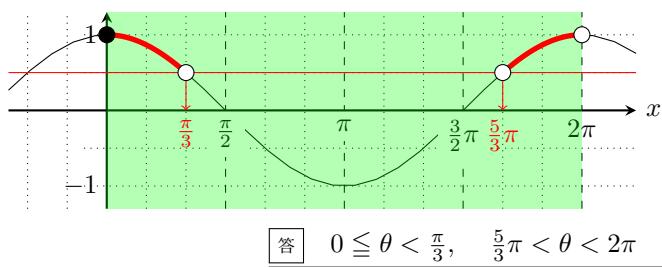
$$(1) \quad \sin \theta > \frac{1}{2}$$



$$(2) \quad \cos \theta \leq -\frac{\sqrt{2}}{2}$$



例 2 $0 \leq \theta < 2\pi$ のとき、不等式 $\cos \theta > \frac{1}{2}$ を満たす θ の範囲を求めよ。

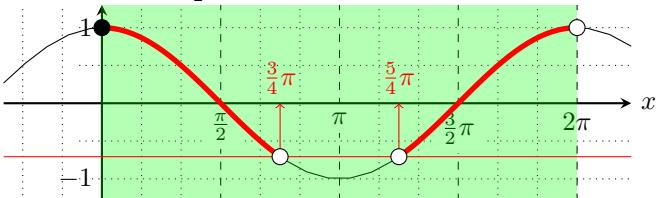


問 2 $0 \leq \theta < 2\pi$ のとき、次の不等式を満たす θ の範囲を求めよ。

- $$(1) \quad \cos \theta > -\frac{\sqrt{2}}{2}$$

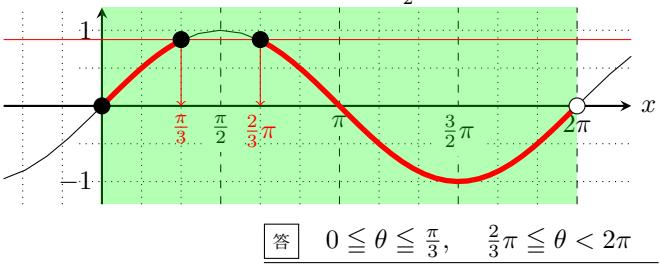
$$(2) \quad 2 \sin \theta - \sqrt{3} \leq 0$$

$$(1) \quad \cos \theta > -\frac{\sqrt{2}}{2}$$

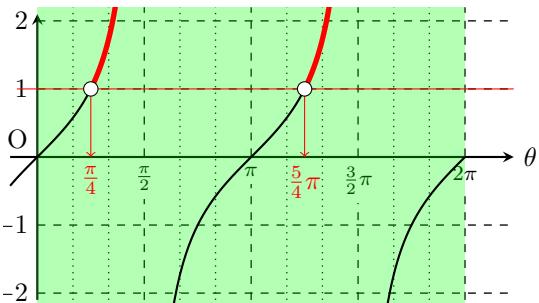


$$(2) \quad 2 \sin \theta - \sqrt{3} \leq 0$$

$$\sin \theta \leq \frac{\sqrt{3}}{2}$$



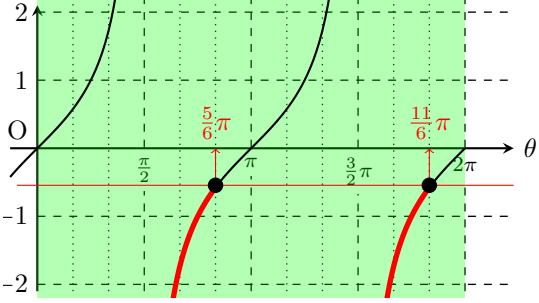
例3 $0 \leq \theta < 2\pi$ のとき、不等式 $\tan \theta > 1$ を満たす θ の範囲を求めよ。



$$\boxed{\text{答}} \quad \frac{\pi}{4} < \theta < \frac{\pi}{2}, \quad \frac{5}{4}\pi < \theta < \frac{3}{2}\pi$$

問3 $0 \leq \theta < 2\pi$ のとき、不等式 $\sqrt{3} \tan \theta + 1 \leq 0$ を満たす θ の範囲を求めよ。

$$\tan \theta \leq -\frac{1}{\sqrt{3}}$$



答 $\frac{\pi}{2} < \theta \leq \frac{5}{6}\pi, \quad \frac{3}{2}\pi < \theta \leq \frac{11}{6}\pi$