$\boxed{1}$  0 $\leq \theta < 2\pi$  のとき、次の方程式、不等式を解け。

 $(1) \quad 2\sin^2\theta - 3\cos\theta = 0$ 

 $(2) \quad 2\cos^2\theta - 3\sin\theta - 3 = 0$ 

(3)  $2\sin^2\theta + \cos\theta - 2 = 0$ (5)  $(\sin\theta + 1)(2\sin\theta - 1) = 0$   $(4) \quad (2\sin\theta + \sqrt{3})\sin\theta = 0$ 

 $(7) \quad 2\sin^2\theta - 3\cos\theta = 0$ 

(1) (0:0.70):0.0

 $(6) \quad 2\cos^2\theta - 5\cos\theta - 3 = 0$ 

 $(8) \quad \sqrt{3} \tan^2 \theta - 2 \tan \theta - \sqrt{3} = 0$ 

2  $0 \le x < 2\pi$  のとき、次の方程式を解け。

 $(1) \quad \cos 2x = \cos x$ 

(6)  $\cos 2x = \cos x$ 

 $(2) \quad \sin 2x = \cos x$ 

(3)  $2\cos 2x + 4\cos x - 1 = 0$ 

(5)  $\cos 2x = \sin x$ 

(8)  $\sin 2x = \sqrt{2} \sin x$ 

(4)  $\sin x(1+\cos 2x) + \sin 2x(1+\cos x) = 0$ 

 $(7) \quad \sin 2x = \cos x$ 

 $(9) \quad \cos 2x = 3\cos x - 2$ 

3  $0 \le x < 2\pi$  のとき、次の方程式を解け。

 $(1) \quad \sin x + \sqrt{3}\cos x = -1$ 

 $(2) \quad 2(\sin x - \cos x) = \sqrt{6}$ 

 $(3) \quad \sqrt{3}\sin 2x - \cos 2x = -\sqrt{2}$ 

 $(4) \quad \sin x - \cos x = 1$ 

 $(5) \quad 2(\sin x + \cos x) = \sqrt{6}$ 

 $(6) \quad \sin x + \cos x = \frac{1}{\sqrt{2}}$