



$0 \leq \theta < 2\pi$ のとき、次の不等式を解け。

(1) $\sqrt{3} \sin \theta + \cos \theta < -1$

(2) $\sin\left(\theta - \frac{\pi}{6}\right) + \cos \theta < \frac{1}{\sqrt{2}}$

(3) $(\sqrt{3} \sin \theta - \cos \theta)(\sin \theta + \sqrt{3} \cos \theta) \geq \sqrt{3}$