

2.16
2

$$|\sin x| \leq 1 - \sin x$$

$$\sin x \leq 1 - \sin x$$

$$2\sin x \leq 1$$

$$\sin x \leq \frac{1}{2}$$

$$\boxed{0 \leq x \leq \frac{\pi}{6} + 2\pi k}$$
$$\boxed{\frac{5\pi}{6} + 2\pi k \leq x \leq 2\pi + 2\pi k}$$

$$\sin x \geq \sin x - 1$$

$x \in \mathbb{R}$

→ $[0, 2\pi]$ ^{min} _{sin x}

$$0 \leq x \leq \frac{\pi}{6}$$
$$\frac{5\pi}{6} \leq x \leq 2\pi$$