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$$\sqrt{3}|\cos x| + \sin x \leq 0$$

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

$$\frac{3\pi}{2} \leq x < 2\pi$$

$$\frac{\pi}{2} < x < \frac{3\pi}{2}$$

$$\sqrt{3}\cos x + \sin x \leq 0$$

$$\sqrt{3}\cos x \leq -\sin x \quad /: \cos x > 0$$

$$\sqrt{3} \leq -\tan x$$

$$-\sqrt{3} \geq \tan x$$

$$\frac{\pi}{2} < x \leq \frac{2\pi}{3}, \quad \frac{3\pi}{2} < x \leq \frac{5\pi}{3}$$

минимум

$$\frac{3\pi}{2} \leq x \leq \frac{5\pi}{3}$$

$(\frac{3\pi}{2})$ - минимум

$$-\sqrt{3}\cos x \leq -\sin x$$

$$\sqrt{3}\cos x \geq \sin x \quad /: \cos x < 0$$

$$\sqrt{3} \leq \tan x$$

$$\frac{\pi}{3} < x < \frac{\pi}{2}, \quad \frac{4\pi}{3} < x < \frac{3\pi}{2}$$

минимум

$$\frac{4\pi}{3} \leq x \leq \frac{3\pi}{2}$$

