

2.2)
2

$$3 \tan x \leq 2 \cos x$$

$$x \neq \frac{\pi}{2} + \pi k$$

$$\frac{3 \sin x - 2 \cos^2 x}{\cos x} \leq 0$$

$$x = \frac{\pi}{2} + \pi k$$

$$3 \sin x - 2(1 - \sin^2 x) = 0$$

$$2 \sin^2 x + 3 \sin x - 2 = 0$$

$$x = \frac{\pi}{6} + 2\pi k$$

$$x = \frac{5\pi}{6} + 2\pi k$$

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

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

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

