

2.50  
p 8

$x \in \mathbb{R}$

$$|\tan x + \cot x| = \frac{4}{\sqrt{3}}$$

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

$$(\tan x + \cot x)^2 = \frac{16}{3}$$

$$\tan^2 x + 2 + \cot^2 x = \frac{16}{3}$$

$$A^2 + \left(2 - \frac{16}{3}\right)A + 1 = 0$$

$$3A^2 - 10A + 3 = 0 \quad | \Delta$$

$$A = 3 \rightarrow \tan x = \pm \frac{\pi}{3} + \pi k$$

$$A = \frac{1}{3} \rightarrow x = \pm \frac{\pi}{6} + \pi k$$