

2.68
LS

$$(1 + \sin x)(\cos x - \sin x) = \cos x + \sin x$$

$$\cos x - \sin x + \sin 2x \cos x - \sin 2x \sin x = \cos x + \sin x$$

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

$$\sin x(-2 + 2\cos^2 x - \sin 2x) = 0$$

$$\boxed{x = \pi k}$$

$$2\cos^2 x - 2\sin x \cos x = 2/2 \sqrt{2} \cos^2 x$$

$$\cos^2 x - \sin x \cos x = \sin^2 x + \cos^2 x$$

$$\sin x(\sin x + \cos x) = 0$$

$$\tan x = -1$$

$$\boxed{x = -\frac{\pi}{4} + \pi k}$$