$$\ln(\sin x) + \ln(2\cos x) = 0 \qquad \left[\frac{\pi}{4} + 2k\pi\right]$$

C.E.

$$2K\pi < x < \frac{\pi}{2} + 2K\pi$$

$$\sin 2x = 1$$

$$2 \times = \frac{\pi}{2} + 2 \times \pi$$

$$\begin{pmatrix} X = \frac{\pi}{4} + K \pi \\ 2K\pi < X < \frac{\pi}{2} + 2K\pi \end{pmatrix}$$

$$\frac{3\pi}{4\pi} = \frac{1}{2} \left[ \frac{7\pi}{6} + 2k\pi < x < \frac{11}{6}\pi + 2k\pi \right]$$

$$\frac{2\pi}{6}\pi + 2k\pi < x < \frac{41}{6}\pi + 2k\pi$$

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