

# Projeto Mathematical Ramblings

[bit.ly/mathematicalramblings](https://bit.ly/mathematicalramblings)

Resolva a equação  $(\sin x)(\cos x) = \frac{1}{2}$  em  $\mathbb{U} = \mathbb{R}$ .

$$\frac{\sin 2x}{2} = \frac{1}{2} \quad \therefore \quad 2x = \frac{\pi}{2} + 2k\pi, \quad k \in \mathbb{Z}$$

$$S = \{x \in \mathbb{R} \mid x = \frac{\pi}{4} + k\pi, \quad k \in \mathbb{Z}\}$$

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