

EXERCÍCIO 5



$$\int \frac{\ln x}{x} dx = \int \frac{1}{x} \cdot \underbrace{\ln x}_u \underbrace{dx}_{du} = \int u du = \frac{u^2}{2} =$$
$$= \frac{(\ln x)^2}{2} + C = \frac{\ln^2 x}{2} + C$$

$$u = \ln x$$

$$du = \frac{1}{x} dx$$

Obs.: $\ln^2 x = (\ln x)^2 \neq \ln x^2$