

Número e

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$$\int_0^1 e^{-x} dx = -e^{-x} \Big|_0^1 = e^{-x} \Big|_1^0 = 1 - 1/e \quad (1)$$

$$\implies 1/e = 1 - \int_0^1 e^{-x} dx \quad (2)$$

$$\implies e = \frac{1}{1 - \int_0^1 e^{-x} dx} \quad (3)$$