

Exponentialgleichungen Aufgabe 163

$$200 * e^x = 2000$$

Logarithmieren:

$$\ln (200 * e^x) = \ln 2000$$

$$\ln 200 + \ln e^x = \ln 2000$$

$$\ln 200 + x * \ln e = \ln 2000$$

$$\ln 200 + x = \ln 2000 \quad | -\ln 200$$

$$x = \ln 2000 - \ln 200 = 7,6009 - 5,2983 = \mathbf{2,3}$$