

$$\text{I} \quad 10\,000 = K \cdot 1\,000\,000^b$$

$$\text{II} \quad 3\,000 = K \cdot 100\,000^b$$

$$\text{I nach } K: \quad K = \frac{10\,000}{1\,000\,000^b} = \frac{1}{100^b}$$

$$K \text{ in II:} \quad 3\,000 = \frac{1}{100^b} \cdot 100\,000^b = \frac{1000^b}{1^b} = 1000^b$$

$$\ln(3\,000) = b \cdot \ln(1000)$$

$$b = \frac{\ln(3\,000)}{\ln(1000)} = 1.159$$

$$K =$$