

$$y = \log_a(c \cdot a^x)$$

$$= \log_a(c) + \log_a(a^x)$$

$$= \log_a(c) + a \cdot x \quad (\text{von Form } y = m \cdot x + c) \quad \square$$

$$\S_7 \log_a(y) = \log_a(c \cdot x^a)$$

$$\Rightarrow \log_a(y) = \log_a c + \log_a x^a$$

$$\Rightarrow \log_a(y) = \log_a c + a \cdot \log_a x$$

$$(\text{von Form } y = m \cdot x + c) \quad \square$$