NMITI - Serie 4

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Aufgabe 1, a)

1)
$$f(x) = c \cdot a^{x}$$

$$y = \log(c \cdot a^{*}) = \log(c) + \log(a^{*})$$

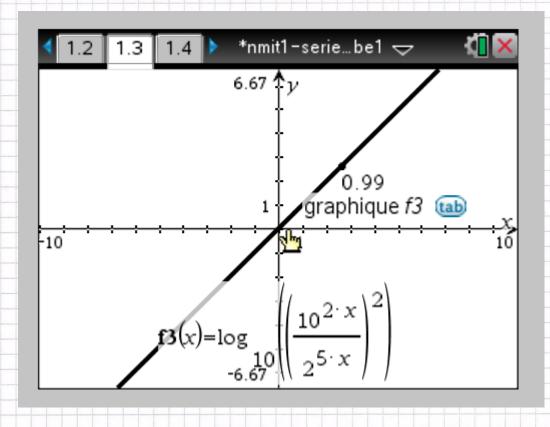
 $10^{*} = 10^{\log(c) + x \cdot \log(a)} = 10^{\log(c) \cdot 10^{\log(a) \cdot x}} = c + a \cdot x = ax + c$

2)
$$f(x) = c \cdot x^{\alpha}$$

$$\log(y) = \log(c \cdot x^{\alpha})$$

$$\log(y) = \log(x^{\alpha}) + \log(x^{\alpha}) + \log(x^{\alpha}) + \log(x^{\alpha})$$

$$\frac{10 \log(x)}{10 \log(x)} = \frac{0}{10 \log(x)} + \log(c) = \frac{10 \log(x) + \log(c)}{10 \log(c)} = \frac{10 \log(x) + \log(c)}{10 \log(x) + \log(c)} = \frac{10 \log(x) + \log(c)}{10 \log(x)} = \frac{10 \log(x) + \log(x)}{10 \log(x)} = \frac{10 \log(x)}{1$$



$$f(x) = \log(c \cdot a^x)$$

Gerade: y = x

Y-Achsenabschnitt c = 0

Steigung a = 1

