

Chp 3 Review

Finance / Growth

Compounded exponential growth

$$A = P \left(1 + \frac{r}{n}\right)^{nt}$$

(N) A = Final

(No) P = Start

r = rate (dec.)

n = # times/year

t = years

Continuous logarithmic growth

$$A = P e^{rt}$$

(N) A = Final

(No) P = Start

(K) r = rate (dec.)

t = years

K = konstant

$$\log_b x = y$$

$$b^y = x$$

$$\log_b b^x = x$$

$$\ln e^x = x$$

$$\log_{10} 10^x = x$$

get x out of the exponent

$$b^{\log_b x} = x$$

$$e^{\ln x} = x$$

$$10^{\log x} = x$$

get x out of the logarithm

Expand / Condense

$$\log xy = \log x + \log y$$

$$\log \frac{x}{y} = \log x - \log y$$

$$\log x^y = y \log x$$

*check your answers!
especially negatives!