

UNIT 5: EXPONENTIAL GROWTH AND DECAY

CONTINUOUS Exponential Growth and Decay

Percent of change is continuously occurring during the period of time
(yearly, monthly, ...)

Examples: "Continuous Interest", "Radioactive Half-Life"

$$y = ae^{\pm kt}$$

y = final amount

a = original amount

k = growth rate constant

t = time

+ = *Growth*, **-** = *Decay*