GGG - Inv. 3.2 Notes

y = (growth factorˣ)·(y-intercept)

Growth Factor: This is the amount multiplied by each time
Example: The rabbit population in Problem 3.1 increased 1.8 times each year.

Growth Rate: This is the **percent of increase**
Also called the **percent of change**

Example: The rabbit population in Problem 3.1 increased 80% each year.

Growth Rate (or Percent of change)   =   Change in the data
                                             Starting value in the data

Example: % of change in the population =   Change in the population
                                               Starting population

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TO CHANGE GROWTH FACTOR TO GROWTH RATE:

Change the growth factor to a % by multiplying by 100. Then subtract 100.

Example:

Growth Factor of 2.5

2.5 x 100 = 250%. Then - 100 = 150%

So the growth rate is 150%

TO CHANGE GROWTH RATE TO GROWTH FACTOR:

Change to a decimal by ÷ 100. Then add 1.

Example:

Growth Rate of 90%

90% = 0.90. Then add 1.

So the growth factor is 1.9