

## Exponential Growth - Homework

1. When a bacterial colony was discovered, there were 1000 bacteria. The number of bacteria grows exponentially at the constant rate:

- (a) Write a differential equation that represents this relationship, and find out the initial rate of growth (in % per hour).

$$\frac{dy}{dt} = 0.05y$$

$$y(0) = 1000$$

- (b) Suppose the researcher found bacteria when it was only 5000. How much time has it taken to reach the 10000? What are possible mistakes that happened that led to the error when it was 10000?

$$\frac{dy}{dt} = 0.05y$$

$$y(0) = 5000$$

$$y(t) = 10000 \Rightarrow t = \frac{\ln(2)}{0.05}$$

- (c) Sketching graph of this relationship (1 hour)



- (d) What will be the multiplication of the bacteria after 10 hours? How much time will it take to reach 10000?

$$y(10) = 10000$$

$$y(10) = 10000$$

- (e) How much time passed for the colony to double? What is the initial rate of growth?

$$y(t) = 2y(0)$$

$$y(t) = 2y(0) \Rightarrow t = \frac{\ln(2)}{0.05}$$

$$y(t) = 2y(0) \Rightarrow t = \frac{\ln(2)}{0.05}$$

- (f) At what time will the bacteria reach 100000000?

- (g) In percentage, what are the multiplication rates in this case?

$$y(t) = 100000000$$

$$y(t) = 100000000$$

- (h) If the population of the bacteria is 100000000, what is the multiplication rate in percentage? How much time will it take to reach 1000000000?

2. Explain (a) by an example of a function that is increasing but its rate of change is decreasing (b) the relationship. Then give an example of a function that is increasing but its rate of change is increasing (c) the relationship. (d) Explain intuitively (e) what is the relationship between the two functions.

- (a) When a differential equation that represents a relationship of a function is given, the function is called a solution. Write the differential equation that represents the relationship.

$$\frac{dy}{dt} = 0.05y$$

$$y(t) = 1000e^{0.05t}$$

- (b) Write the differential equation for a function that is a function of time. The function is called a solution. Write the differential equation that represents the relationship. (c) Write the differential equation that represents the relationship.

$$\frac{dy}{dt} = 0.05y$$

$$y(t) = 1000e^{0.05t}$$

# Exponential Growth Homework Stu Schwartz Answers

**TD Snyder**



## **Exponential Growth Homework Stu Schwartz Answers:**

*Regents Exams and Answers: Geometry, Sixth Edition* Barron's Educational Series, Andre, Ph.D. Castagna, 2025-01-07  
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presentation of each theory and their connections shows how the activity of networking generates questions at the theoretical methodological and practical levels and how the work on these questions leads to both theoretical and practical progress The core of the book consists of four new networking case studies which illustrate what exactly can be gained by this approach and what kind of difficulties might arise

**Interactive Mathematics Program** Daniel M. Fendel, 1999

UME Trends , 1990

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