

Exponential Growth - Homework

1. When a bacterial culture is incubated, often, the number of bacteria grows exponentially. The following table shows the growth of a culture of bacteria over time.

- a. Write a differential equation that represents the relationship, and then solve the equation for the value of b .

$$\frac{dy}{dt} = by$$

$$y = y_0 e^{bt}$$

- b. Suppose the culture started with 100 bacteria at $t = 0$ hours. How many bacteria are there at $t = 2$ hours? What is the average number of bacteria that are present over the 2-hour period?

$$\frac{dy}{dt} = by$$

$$y = y_0 e^{bt}$$

$$y = 100 e^{0.3466 t}$$

- c. Sketch the graph of the relationship $y = 100 e^{0.3466 t}$.



- d. What will be the population of the bacteria after 4 hours? How many bacteria are there at $t = 0$?

$$y = 100 e^{0.3466 t}$$

$$y = 100 e^{0.3466 \cdot 4}$$

- e. How many bacteria are there after 4 hours? What is the average number of bacteria that are present over the 4-hour period?

$$y = 100 e^{0.3466 t}$$

$$y = 100 e^{0.3466 \cdot 4}$$

$$y = 100 e^{0.3466 \cdot 4}$$

- f. Suppose the culture started with 100 bacteria at $t = 0$ hours.

- g. Suppose the culture started with 100 bacteria at $t = 0$ hours. What are the average number of bacteria that are present over the 4-hour period?

$$y = 100 e^{0.3466 t}$$

$$y = 100 e^{0.3466 \cdot 4}$$

- h. Suppose the culture started with 100 bacteria at $t = 0$ hours. What are the average number of bacteria that are present over the 4-hour period?

2. Suppose y is an amount of money that grows exponentially over time and that the initial amount of money is y_0 . The following table shows the growth of a culture of bacteria over time. The following table shows the growth of a culture of bacteria over time.

- a. Write a differential equation that represents the relationship, and then solve the equation for the value of b .

$$\frac{dy}{dt} = by$$

$$y = y_0 e^{bt}$$

- b. Suppose the differential equation for y is $\frac{dy}{dt} = by$, and that the initial amount of money is y_0 . What is the average number of bacteria that are present over the 4-hour period?

$$y = 100 e^{0.3466 t}$$

$$y = 100 e^{0.3466 \cdot 4}$$

$$y = 100 e^{0.3466 t}$$

$$y = 100 e^{0.3466 \cdot 4}$$

$$y = 100 e^{0.3466 \cdot 4}$$

Exponential Growth Homework Stu Schwartz Answers

Daniel M. Fendel



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