

Exponential Growth - Homework

1. When population data was collected, three different growth patterns were observed. The following is an example of data proportional to the amount of time.

- a) Write a differential equation that represents the relationship, and then solve the equation for the value of t when $P=100$.

$$\frac{dP}{dt} = 0.02P$$

$$P(t) = P_0 e^{0.02t}$$

- b) Suppose the population of the city is 1000 in year 0. How much will the city be in year 100? What is the percentage increase over the period the data set was used for? Is the model realistic?

$$P(100) = 1000 e^{0.02 \cdot 100}$$

$$P(100) = 1000 e^{2} \approx 7389$$

$$P(100) = 1000 e^{2} \approx 7389$$

- c) Sketch the graph of the relationship $P(t)$ over



- d) What will be the population of the city when the population reaches 10000?

$$P(t) = 1000 e^{0.02t}$$

$$10000 = 1000 e^{0.02t}$$

- e) How much growth did the city have by year 100? What is the ΔP ? What was the Δt ?

$$\Delta P = 10000 - 1000 = 9000$$

$$\Delta t = 100 - 0 = 100$$

$$\Delta P / \Delta t = 9000 / 100 = 90$$

$$P(t) = 1000 e^{0.02t}$$

- f) Assume the population reaches 10000 in year 100. What are the implications when

- g) Is the population of the city increasing or decreasing? Justify your answer.

- h) Is the model realistic?

$$P(t) = 1000 e^{0.02t}$$

$$P(t) = 1000 e^{0.02t}$$

2. Explain why an integral equation that describes a function $f(t)$ and its initial value $f(0)$ is not unique. Then give an example of a function $f(t)$ that satisfies the integral equation $f(t) = f(0) + \int_0^t f(s) ds$. Explain why this is not a differential equation for $f(t)$.

- a) Write a differential equation that represents the relationship of $f(t)$ and its initial value $f(0)$ when $f(t) = f(0) + \int_0^t f(s) ds$.

$$\frac{df}{dt} = f(t)$$

$$f(t) = f(0) e^{t}$$

- b) Solve the differential equation for $f(t)$ when $f(0) = 1$. Is the function $f(t)$ unique? Is it the only function that satisfies the integral equation $f(t) = f(0) + \int_0^t f(s) ds$ when $f(0) = 1$?

$$f(t) = e^t$$

$$f(t) = \frac{f(t) - f(0)}{t - 0} = \frac{e^t - 1}{t}$$

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