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Week 6: Exponential and Logistic Function Models > Lab > Draw Conclusions



Bookmark

Reflect on the Question

Analyze the Data

Draw Conclusions

Primary Research Question

Denmark is a high-income country in Europe of about 5.5 million people. What is the **best-fitting model** for growth of internet usage in Denmark since 1990?

(6/7 points)

Write Your Conclusion


Answer the question and support your answer with statistics:

After using both an exponential and a logistic function to model Denmark's growth of internet usage since 1990, we found that the **Answer:** logistic model fit better with a high R-squared value of **Answer:** .995 , compared to an R-squared value of **Answer:** .800 for the exponential model. In addition, it is visually clear from the graphs that the logistic model fit the observed data better than the exponential model. All of this suggests that we should trust predictions from the logistic model more than predictions from the exponential model. The exponential model suggests that in 1990, there was a predicted proportion of **Answer:** .00585 of Denmark's population that used internet, with the proportion of internet users increasing by a factor of **Answer:** 1.731 every year after 1990, on average. The logistic model shows that the predicted **Answer:** carrying capacity of the proportion of people who use internet in Denmark was .8967. Since the logistic model fits better, the proportion of internet users in Denmark will probably eventually **Answer:** level off rather than continuing to grow exponentially.


You have used 1 of 1 submissions

Function Models

Readings


Reading Check due
Mar 15, 2016 at 18:00
UTC 

Lecture Videos


Comprehension Check
due Mar 15, 2016 at
18:00 UTC 

R Tutorial Videos


Pre-Lab

Pre-Lab due Mar 15,
2016 at 18:00 UTC 

Lab

Lab due Mar 15, 2016
at 18:00 UTC 

Problem Set

Problem Set due Mar
15, 2016 at 18:00 UTC 

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