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Question 4

4. A group of hedgehogs was released in the south-Austin area. Each year, the size of the population was recorded. Their population growth over time was modeled with a logistic growth curve. The model fit was 0.972.

Here are the model parameters:

$$C = 2,000$$

$$a = 152.10$$

$$b = 2.17$$

(1/1 point)

4a. According to this model, what will be the maximum number of hedgehogs in South Austin?




Answer: 2000

You have used 1 of 1 submissions


(1/1 point)

4b. What was the size of the hedgehog population when the growth rate began to slow down?


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 

✓ Answer: 1000

You have used 1 of 1 submissions

(1/1 point)

4c. How many years had passed when the population growth rate began to slow down? (Round to 1 decimal place.)

✓ Answer: 6.5

You have used 1 of 1 submissions

(1/1 point)

4d. The hedgehogs were released in South Austin in 2001. How many hedgehogs were living in South Austin by 2010, according to the model? (Round to a whole number.)

✓ Answer: 1750

You have used 1 of 1 submissions

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