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Question 4

4. A group of hedgehogs were 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**Hide Answer***You have used 1 of 1 submissions***Help**

(1/1 point)

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

Answer: 1000**Hide Answer***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

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(1 point possible)

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 zero decimal places.*)

Answer: 1750[Hide Answer](#)*You have used 1 of 1 submissions*

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