Solutions

Algebra II Journal

Module 2: Regression

Which Model Models Best?

This journal belongs to:

Module 2: Which Model Models Best?

Algebra II Journal: Reflection 1

Respond to the following reflection questions and submit to your teacher.

Visit the National Center for Education Statistics at National Center for Education Statistics- Fast Facts to view the average costs of college tuition. Select a college category (all institutions, 4-year, 2-year, public, private) and use the right columns (current value of dollar) to identify data for your scatter plot.

Create a scatter plot and determine which function type may be the best fit for the data set. Calculate and review the residual plot to determine if the model is the best fit. If you selected a linear model, analyze the correlation coefficient. Justify why the model you selected is the best fit for the data.

Use your model of best fit to predict the average cost of tuition in the year 2017.

Answer:

Solutions for module reflection data set will vary based on the institution criteria selected. Multiple functions may be selected and justified as the model of best fit. Focus more on the justification provided rather than the function selected. Consider providing options for students to present their findings, such as group presentations, gallery walk, etc.