



Algebra II Journal
Module 2: Regression
Exploring Other Function Models

This journal belongs to:

Module 2: Exploring Other Function Models

Algebra II Journal: Reflection 1

Before exploring these function families, let's review what we know about linear, quadratic and exponential models. Complete the graphic organizer below and submit it to your teacher.

	Linear Functions	Exponential Functions	Quadratic Functions
Key Behaviors			
When might this function be the best model for a data set?			

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Algebra II Journal: Reflection 2

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

Create a scatter plot for the data.

Examine the scatter plot. Which possible models should you consider for a regression equation for this data set?

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Algebra II Journal: Reflection 3

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

Select one of the new function families to research in more depth:

- Cubic Functions
- Quartic Functions
- Power Functions
- Logarithmic Functions
- Logistic Functions
- Trigonometric Functions

For the function family you selected, use your textbook and online searches to develop a deeper understanding of the function family. Summarize your findings and submit to your teacher. Make sure to address:

- What are the key features of this function family? (end behavior, number of possible maximum and minimum values, increasing/decreasing trends, etc.)
- Include sample graphs to represent the variety of functions within this function family.
- Include any possible contextual examples that could be modeled with this function type.

