

Chapter 2.3: Analyzing Bivariate Data using Linear and Quadratic Models

When do you know a model is appropriate? How good is it?

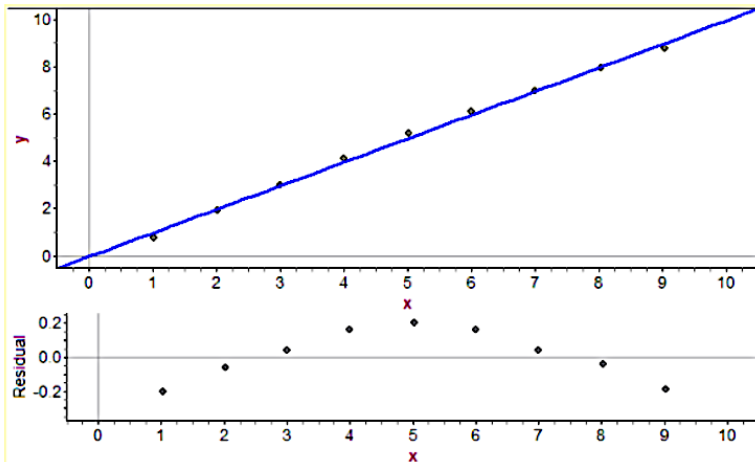
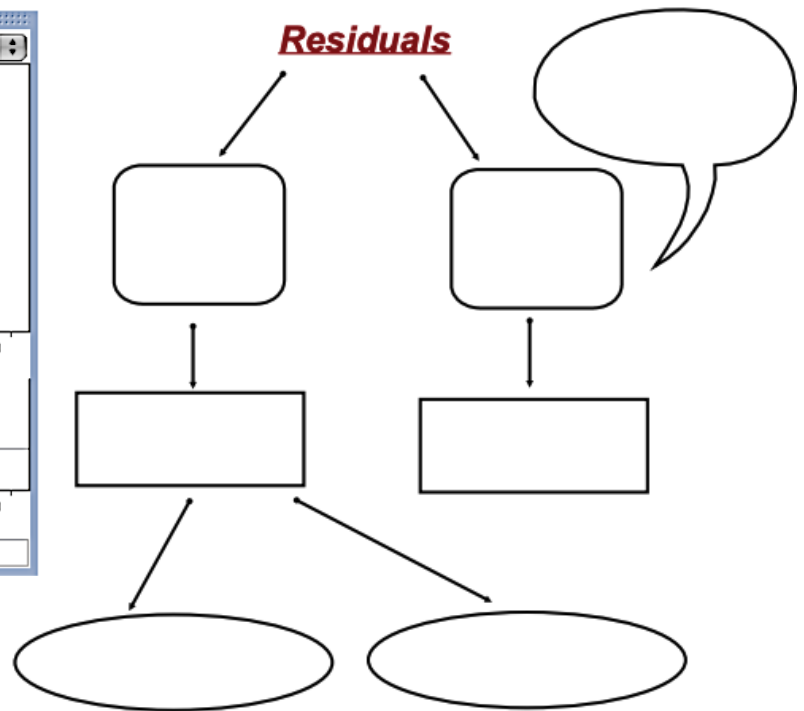
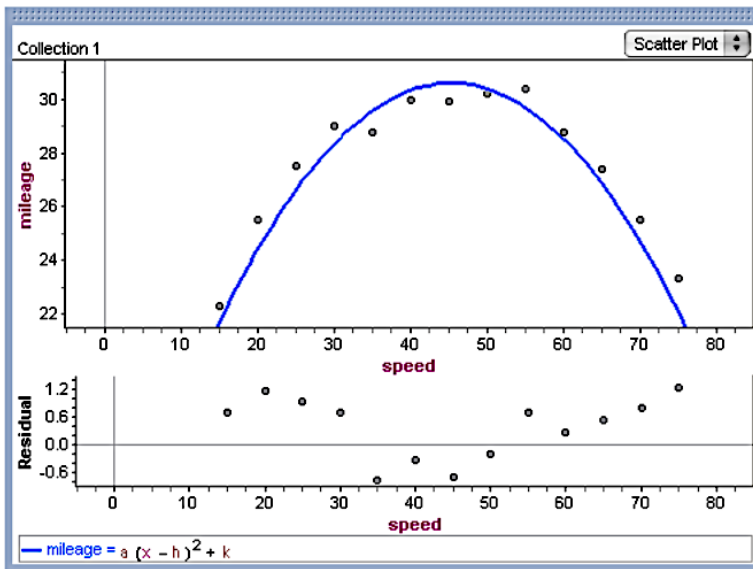
- 1.
- 2.
- 3.

After you decide on what type of model to use and fit a curve to the data, you analyze the _____

Residual in statistics is the same as _____.

Residual = _____ - _____

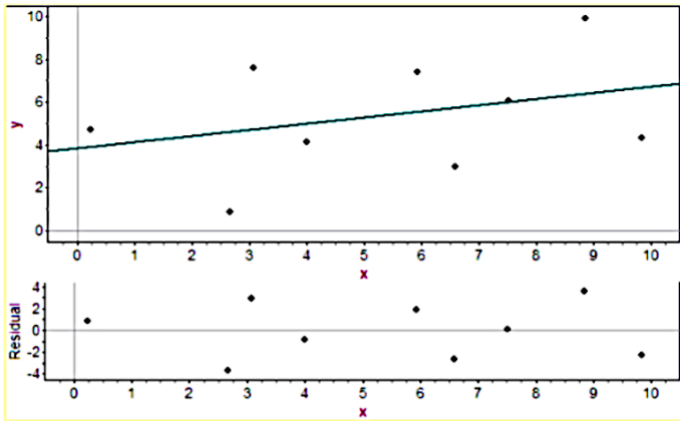
Residual plot for Gas Mileage Model (Fathom)



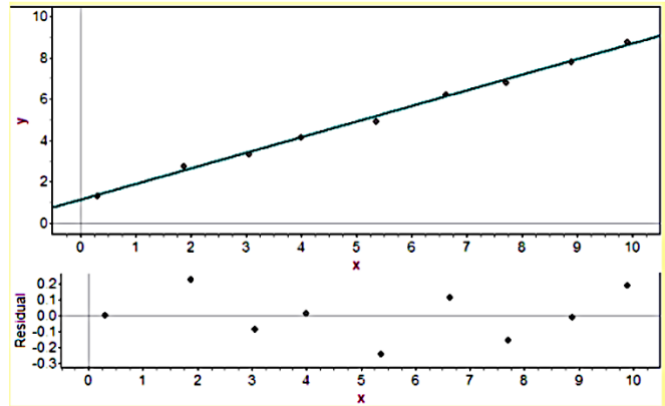
Pattern:

Magnitude:

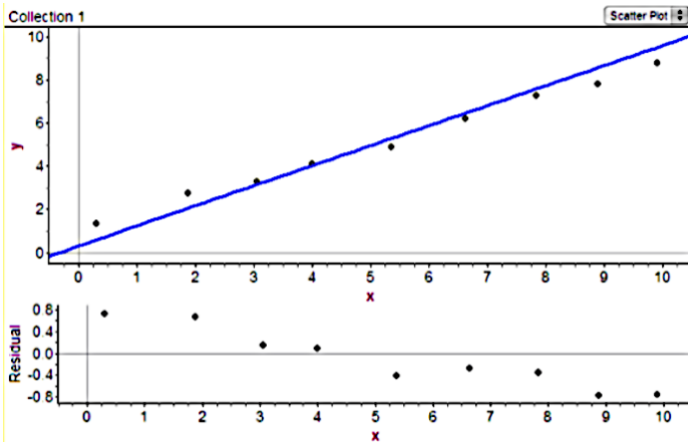
Conclusion:



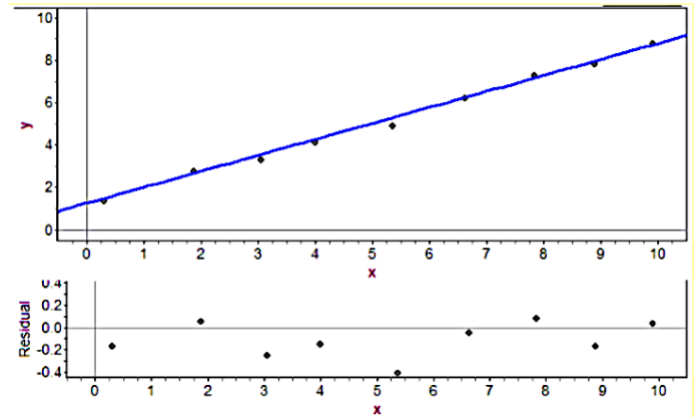
Pattern:
Magnitude:
Conclusion:



Pattern:
Magnitude:
Conclusion:



Pattern:
Magnitude:
Conclusion:



Pattern:
Magnitude:
Conclusion:

Analyzing Bi-Variate Data

1. Create a _____ for the bivariate data.
2. Analyze _____.
 - Adjust model as needed.
3. Appropriateness of Model. (Why model is appropriate or why it is not appropriate)
4. How good of a _____ will the model be? Why?