

Section 2.8 Quadratic Models

Objective: In this lesson you learned how to classify scatter plots and use a graphing utility to find quadratic models for data.

Course Number

Instructor

Date

I. Classifying Scatter Plots (Page 165)

Describe how to decide whether a set of data can be modeled by a linear model.

What you should learn
How to classify scatter plots

Describe how to decide whether a set of data can be modeled by a quadratic model.

II. Fitting a Quadratic Model to Data (Pages 166–167)

Once it has been determined that a quadratic model is appropriate for a set of data, a quadratic model can be fit to data by . . .

What you should learn
How to use scatter plots and a graphing utility to find quadratic models for data

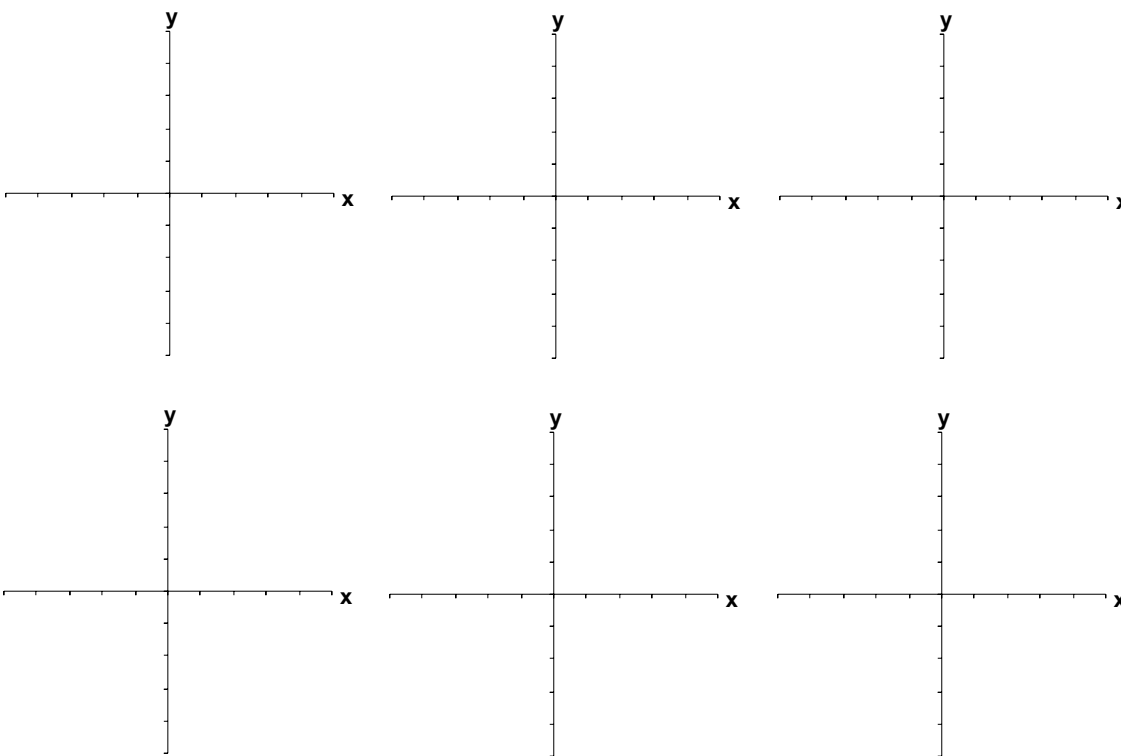
Example 1: Find a model that best fits the data given in the table.

x	-1	0	2	5	9	12	15
y	8.7	3.45	-5.55	-15.3	-21.3	-20.5	-15.3

III. Choosing a Model (Pages 167–168)

If it isn't easy to tell from a scatter plot which type of model a set of data would best be modeled by, you should . . .

What you should learn
How to choose a model
that best fits a set of data

**Homework Assignment**

Page(s)

Exercises