

2.8 Exploring Data: Quadratic Models

Precal - H



What will you learn ?



- To classify scatter plots
- To use scatter plots & a graphing utility to find quadratic models for data
- To chooses a model that best fits a set of data

Classifying Scatter Plots

Example 1 - See p. 161 for data

See p. 165; exercise 3

Fitting a Quadratic Model to Data

Example 2 - p. 162

- a.) use a calculator to create scatter plot
- b.) use the regression feature to find a model that best fits the data
- c.) approximate

See p. 165; exercise 13

Example 3 - P. 163

See p. 165; exercise 15

Choosing a Model

Sometimes it's not easy to distinguish which model is a best fit.

Find several models

Choose the best fit by comparing y -values of each model with actual y -values

Example 4 - p. 164

See p. 166; exercise 21