

## 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