Chapter 2.4: Analyzing Bivariate Data with Quadratic Models

Open the CODAP file called Pig Weight Gain and analyze the bivariate data.

Independent variable: _____   Dependent variable: _____

Model: _____

Analysis of Model: (must comment on appropriateness and accuracy based on analysis of your residuals)

1.) A veterinarian gives a dosage of 2 pellets to a group of underweight piglets. What weight gain percentage should the vet expect to see?

2.) A local farmer needs his pigs to gain 15% of their current weight. He decides to use the supplemental pellets used in the study represented by your model. How many pellets should the farmer give the piglets in order to increase their weight by 15%?