Exploring Residuals   **For the Teacher**

Objectives:

Using the **RESIDUALS** aplet, the student will be able to compute residuals and display their graph to determine how well the regression equation fits the data.

Functionality:

When the student selects **START** , the **RESIDUALS NOTE** will be displayed. It is important to load your two data sets into the **RESIDUAL** aplet. Follow the directions in the note.

The student should then view the **SKETCH** to get a definition of what residuals are and see a visual representation of them.

VIEWS allows the student to choose the type fit, to use Auto Scale to view the scatterplot of the data, and the selected fit, and to analyze the residuals.
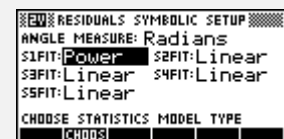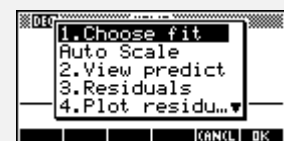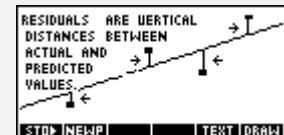

Choose fit takes the student to **the RESIDUAL SYMBOLIC SETUP** to choose the type fit for the scatterplot of data.

AutoScale to see a scatter plot of the data and the regression equation chosen in the symbolic setup.

View Predict calculates the predicted values and places them in C3.

Residuals subtracts the actual values in C2 and subtracts the predicted values C3 and stores this difference in C4.

Plot residuals will display a scatter plot of the residuals.
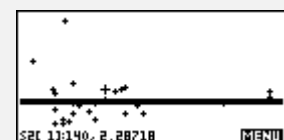
Programs associated with this aplet:
     .R.PF, .R.PR, .R.RS, .R.PS, .R.S, .R.SV