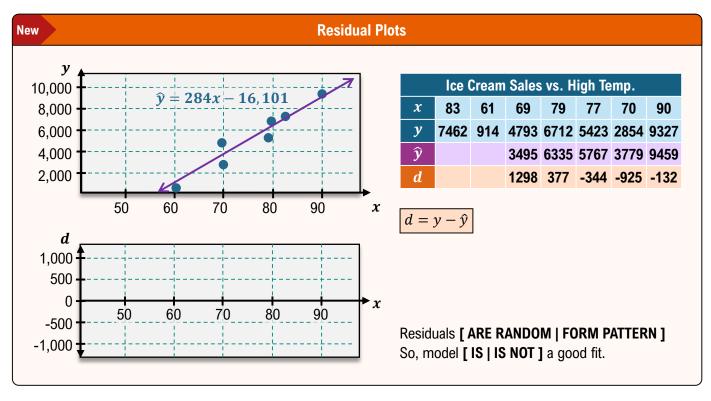
TOPIC: RESIDUALS ANALYSIS

Residuals and Residual Plots

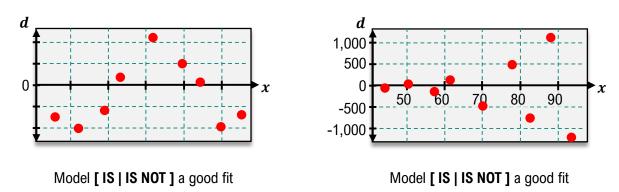
◆ Recall: A residual is vertical distance from a point to the line. A residual plot determines if the line is a "good fit."

EXAMPLE

The data below shows ice cream sales (y) in dollars from a local ice cream stand & the daily high temperature (x) in °F. Calculate and plot the residuals of this data set.



- ► If residuals show a pattern that is ______, then model (regression line) [IS | IS NOT] a good fit for data.
- ► If residuals show a pattern where data points oscillate or diverge, then model [IS | IS NOT] a good fit for data.



TOPIC: RESIDUALS ANALYSIS

PRACTICE

Which of the following residual plots suggest that a linear regression model is appropriate?

