

M9X & M9Y - Advanced Placement Statistics - Chapter 5

The LSRL

December 17, 2019

Dear Students,

Please carefully study section §5.2 and §5.3 of your textbook. You should fully understand all concepts introduced in this section, including:

- The equation of the "best fit" *Least-Squares Regression Line* (LSRL)
- The *slope* of the LSRL and its interpretation
- The *y-intercept* of the LSRL and its interpretation
- The danger of *extrapolation*
- The MINITAB output - how to read it
- Using the LSRL to calculate *predicted* values
- The *residuals* ($y - \hat{y}$)
- The *residual plot*

Once you finish studying, proceed by answering the following review problems: 5.14, 5.18, 5.20, 5.32, 5.34, and 5.36

As always, your work should be uploaded electronically and not turned in by email or on paper.

Mr. Demopoulos & Ms. Erayil