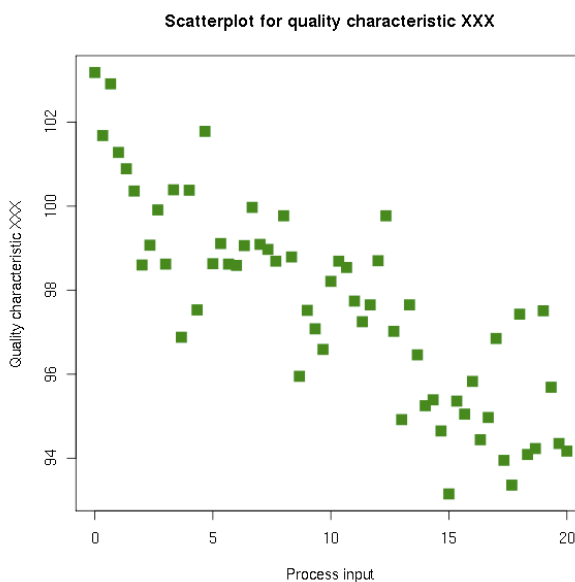SECONDARY MATH I // MODULE 9

MODELING DATA – RSG 9.5

9.5

READY

Topic: Estimating the line of best fit

Examine the scatterplot below. Imagine that you drew a straight line through the general pattern of the points, keeping as close as possible to all points with as many points above the line as below.

1. Predict a possible y-intercept and slope for the line you imagined.

    a. y-intercept: _____

    b. slope: _____

2. Sketch the line that you imagined for question #1 and write an equation for that line.

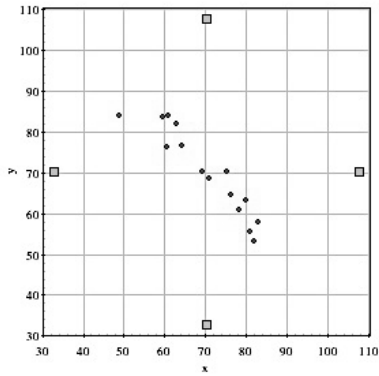Scatterplot for quality characteristic XXX

SET

Topic: Estimating the correlation coefficient

Match the following scatterplots with the correct correlation coefficient.
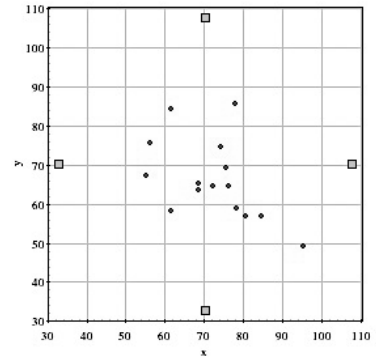
Possible correlation coefficients:

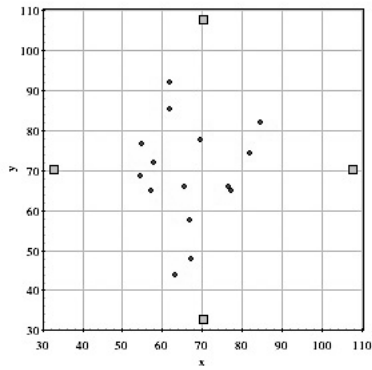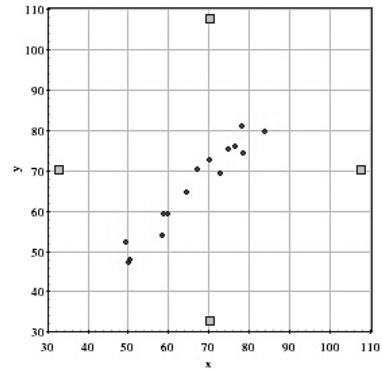a. 0.05   b. 0.97   c. -0.94   d. -0.49   e. 0.68   f. -0.25
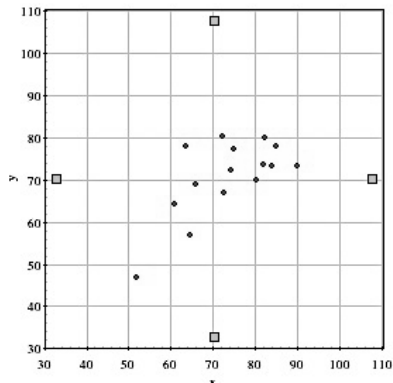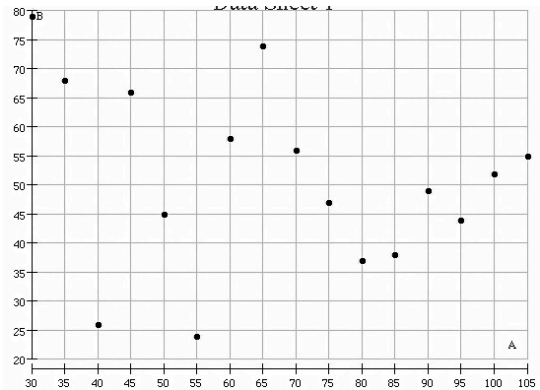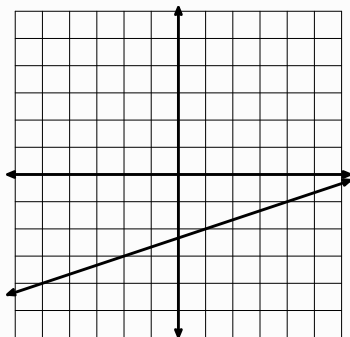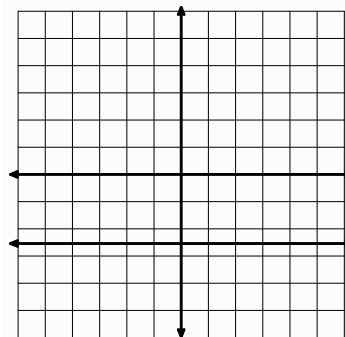
3.

4.

5.

6.

7.

8.

GO

Topic: Visually comparing slopes of lines.

Follow the prompt to sketch the graph of a line on the same grid with the given characteristics.
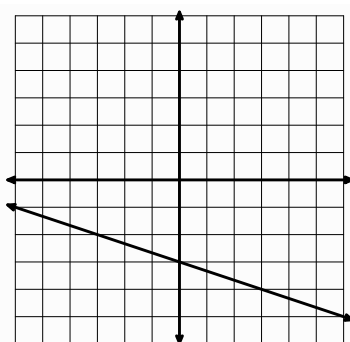
8. A greater slope

9. A lesser slope

10. A larger y–intercept and a lesser slope

11. Slope is the opposite reciprocal.