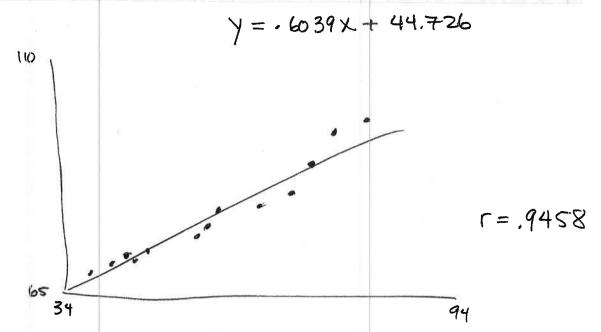
	VIJT	
Name	AU I	

Instructions: Show all work. State any formulas used. If you use the calculator, you should say which function you used, and what you entered into it, as well as any output. I can only give partial correct for incorrect answers if I have something to grade.

1. Use the data to find a linear regression model. Plot the data on a scatterplot along with the regression equation. State the correlation for the model.

\boldsymbol{x}																
У	71	71	73	74	75	76	78	80	84	85	85	88	93	101	104	



2. What proportion of the change in y is explained by the relationship with x?

89% (12)

3. Test the hypothesis that the correlation is non-zero for this model. Clearly state your hypotheses and conclusions.

LinkerTest

Wist. Ls YList:L6

4. Find the 95% confidence interval for β_1 .

Lin Reg T Int XList: Ls YList: L6 C-level: .95

5. Create a prediction interval for
$$\hat{y}$$
 at $x^* = 70$.