•					
Survey 10	textbooks. Collect bivariate	data (number of pages in the text	book, the cost of the textbook).		
1. Co	mplete the table.				
	Number of Pages	Cost of Textbook			
			•		
			•		
			-		
			-		
			-		
			-		
			-		

2. Which variable should be the dependent variable and which should be the independent

Ch. 12: Regression Lab II

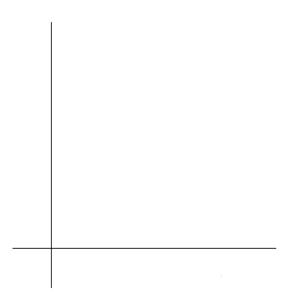
Class Time:

**Student Learning Outcomes:** 

variable? Why?

Names:

3. Graph "number of pages" vs. "cost." **Plot the points on the graph**. Label both axes with words. Scale both axes.



4. Enter your data into your calculator or computer. Write the linear equation below, rounding to 4 decimal places.

equation: 
$$\hat{y} = \underline{\hspace{1cm}}$$

Is the correlation significant? Why or why not? (Answer in 1-3 complete sentences.)

- 5. Answer the following:
  - a. Predict the total cost of a textbook with 400 pages.
  - b. Predict the total cost of a textbook with 600 pages.

6.	Obtain the graph on your calculator or computer. Sketch the regression line on the graph in 3 above.
Dis	cussion Questions
7.	Answer each question in 1-3 complete sentences  a. Does the line seem to fit the data? Why?
	b. What does the correlation imply about the relationship between the distance and the cost?
8.	a. Are there any outliers? If so, which point is the outlier?
	b. Should the outlier, if it exists, be removed?Why or why not?