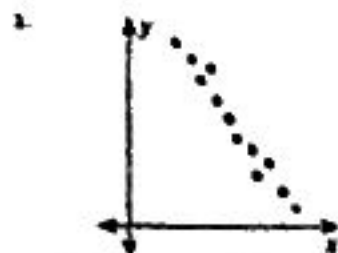


## Homework: Scatterplots &amp; Line of Best Fit

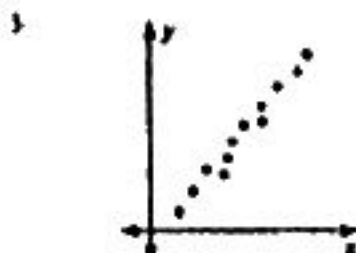
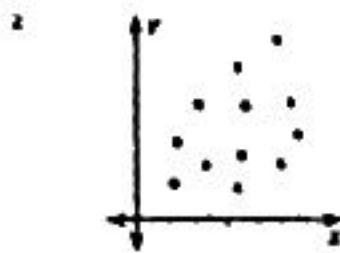
Unit 4 Day 5

For questions 1-3, (a) identify the correlation of the scatter plot and (b) describe a real life situation the scatter plot could represent.



a. Negative Correlation

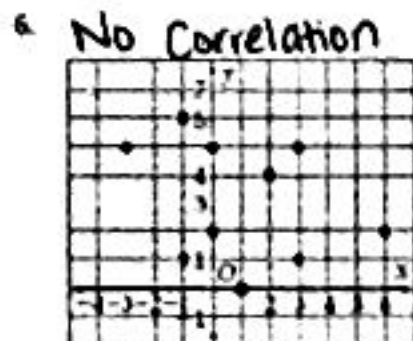
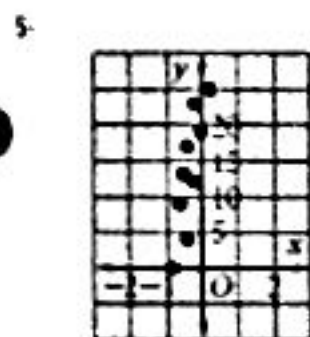
b. A temperature goes up, the number of jackets worn goes down.



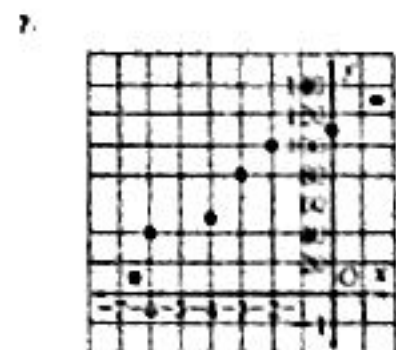
a

b

In questions 5-7, decide whether the data in each scatter plot follow a linear pattern. If they do, draw a trend line.



CANT DRAW A TREND LINE



The scatter plot at the right shows the average salaries for Professors of Public Institutions of Higher Education in thousands of dollars for years 1988 to 1994 where 1 = 8 corresponds to 1998.

8. Draw a trend line between two points and write an equation for the line.

9. Use the trend line to find the average salary in 1991.

10. Use the equation of the trend line to estimate the average salary in 1998.

