Name	Date	Period

## Unit 16 Statistics Quiz Reviewb

## **Correlation & Causation of Scatter Plots**

Identify the following scatter plots as a linear positive, linear negative, exponential growth, exponential decay, or no correlation.



## **Interpreting Linear Equations**

5. The following graph describes the cost of renting a car. After studying the graph, answer the following questions.



Calculator – Lines of Best Fit & Correlation Coefficient

6. Find the **linear** line of best fit for the following table:

Total Fat (x)	0	9	13	21	30	36	42
Total Calories (y)	0	260	320	425	452	463	550

Equation: \_\_\_\_\_

7. Find the **<u>exponential</u>** line of best fit for the following table:

x	-3	-2	-1	0	1	2	3
y	1/9	$\frac{1}{3}$	1	3	9	27	81

Equation: \_\_\_\_\_

8. What does a correlation coefficient of -1 mean a positive or negative correlation? Is it a strong or weak relationship?