Sec I – Term 4, Statistics Name_____ ID: 1

Assignment: T4-70 Standard Regression Date_____ Period_____

Use the following tables and your calculator to complete the following:

Absences	6	2	15	9	12	5	8	10	20
Final Grade	82	98	43	74	58	90	78	70	23

1. Make a scatter plot of the data on your calculator.

2. Find the linear regression equation on your calculator.

3. Find the exponential regression equation on your calculator.

4. Which regression has smaller residuals and would be a better fit for the data?

5. Predict a final grade for someone with 18 absences.

# of Fires	43	48	56	61	67	70
Thousands of Acres Burned	128	130	135	143	145	152

6. Make a scatter plot of the data on your calculator.
7. Which would better model this data, a linear regression or an exponential regression?

8. What is the appropriate regression equation?

9. Predict how many acres will be burned if there are 35 fires one year.

Hours	0	1	2	3	4	5
Bacteria	1	5	15	55	210	790

10. Make a scatter plot of the data on your calculator.

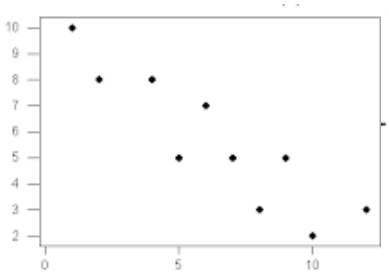
11. Which would better model this data, a linear regression or an exponential regression?

12. What is the appropriate regression equation?

13. How many bacteria will there be after 8 hours?

Tell the type of regression you would use for each graph.

14.



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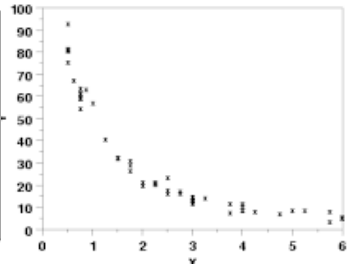

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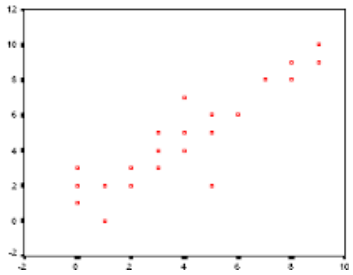

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