

KINETIC DATA ANALYSIS

NAME OF STUDENT:

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Anne Christelle

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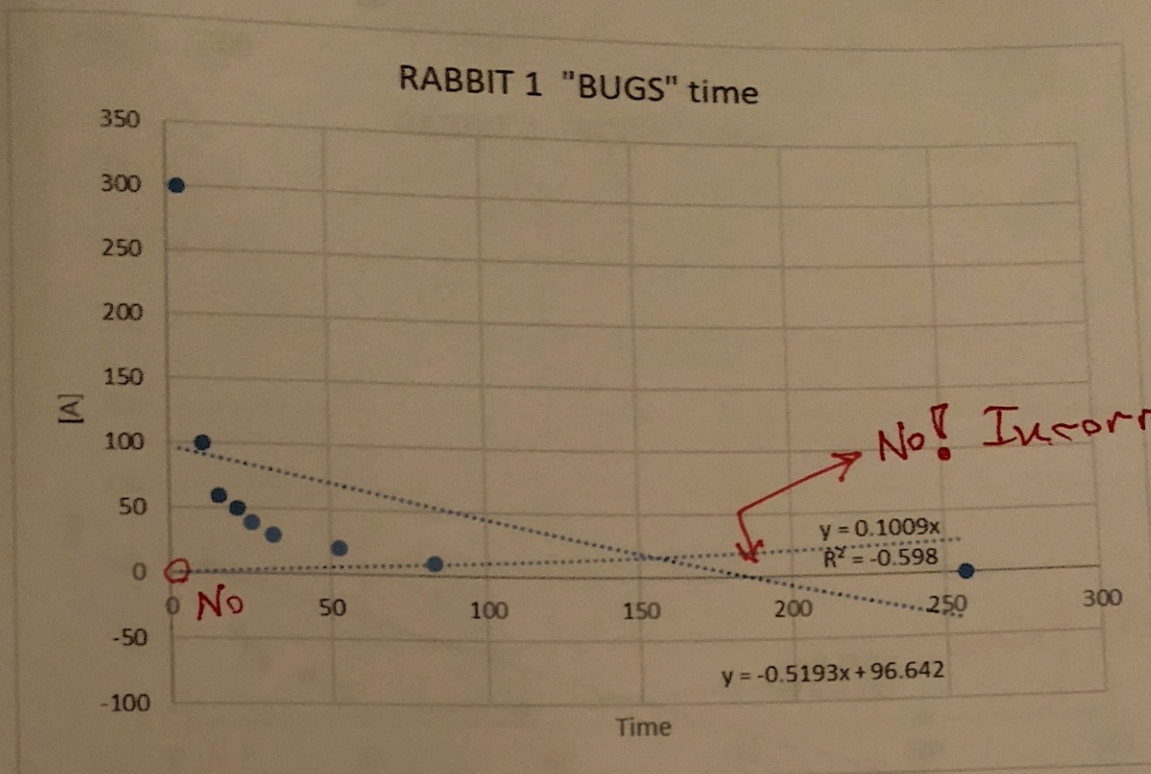
CHM1045

INSTRUCTOR:

Terrence Mccaffrey

DATE:

03/24/19



$$Y = -0.598x + 96.642$$

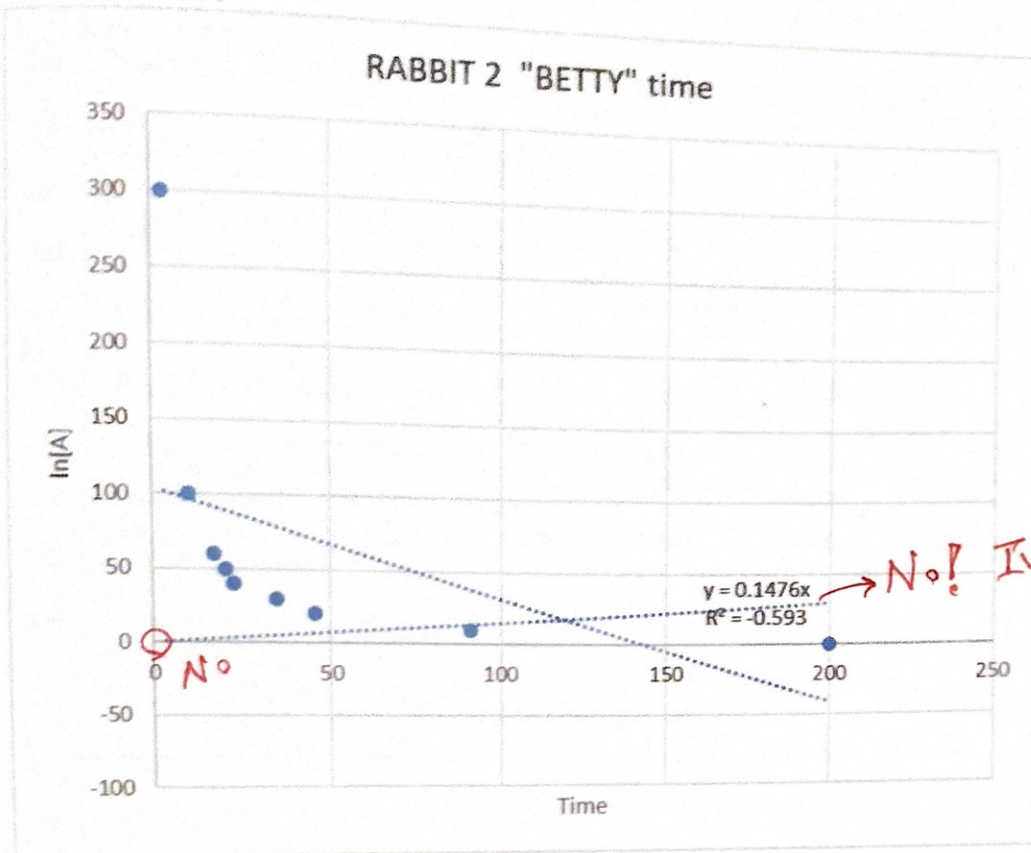
Therefore,

$$\text{Slope} = -0.598$$

RABBIT 2
"BETTY"

[A]	Time
200.001	0
90.9091	10
45.4546	20
34.4828	30
22.7273	40
20.4082	50
17.2414	60
10.101	100

3.24675 300



$$Y = -0.7226x + 103.47$$

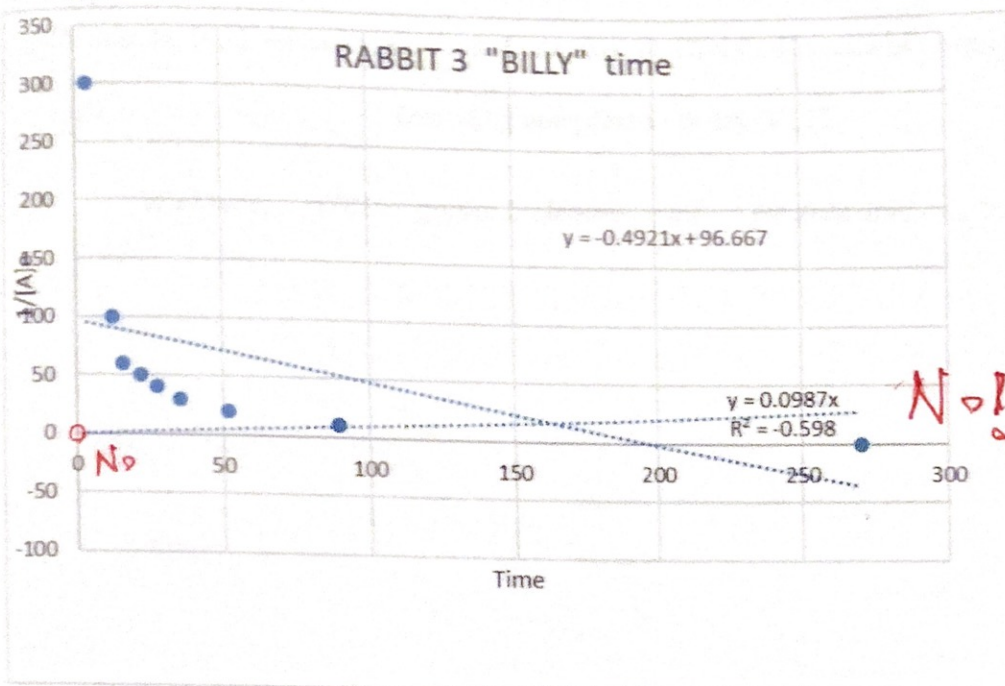
Slope = -0.7226

RABBIT 3
"BILLY"

[A]	time
269.92	0
89.33	10
51.9	20
35.47	30
27.51	40
22.09	50
15.99	60

12.4 100

3.79 300



Slope = -0.4921

For graph 3, the slope is negative though we expect it to be positive, with respect to the law of the 2nd order reaction. Therefore, the plot doesn't obey the law of the second order reaction (Marin et al., 2019). *Wrong!*

A linear graph illustrates the order of reaction with regards to [A] (Marin et al., 2019).

Plot 2 has a trend line that touches exactly one of the points on the graph, hence, the plot is best-fit. It is unlike the rest of the plots that do not have any best-fit, therefore, not easy to correlate the trend of the graphs with respect of the given variables (Wickham, 2016).