Name_____   Date_____

LAB 4E: Some models have curves
Response Sheet

Directions: Record your responses to the lab questions in the spaces provided.

Making models do yoga

Problems with lines

- **Describe, in words, how the line fits the data. Are there any values for `critics_rating` that would make obviously poor predictions?**

- **Compute the MSE of the model for the `test` data and write it down for later.**

Adding flexibility

Making bend-y models

- **What is the role of the number `2` in the `poly()` function?**

Comparing lines and curves

- **Compare how the *line of best fit* and the *quadratic* model fit the data. Which do you think has a lower `test` MSE?**

- **Compute the MSE of the quadratic model for the `test` data and write it down for later.**

- **Use the `test` MSE to explain why one model fits better than the other.**

On your own

- **Based on the plot, which model do you think is the best at predicting the `test` data?**

- **Use the `test` MSE to verify which model is the best at predicting the `test data`.**