1.	In the function feature_derivative_with_L2, was the intercept term regularized?	1 point
	Yes	
	No	
2.	Does the term with L2 regularization increase or decrease the log likelihood $\ell\ell(w)$?	1 point
	Increases	
	Decreases	
3.	Which of the following words is not listed in either positive_words or negative_words?	1 point
	love	
	disappointed great	
	money	
	quality	
4.	Questions 5 and 6 use the coefficient plot of the words in positive_words and	1 point
	negative_words. (True/False) All coefficients consistently decrease in magnitude as the L2 penalty is increased.	
	True	
	False	
5.	Questions 5 and 6 use the coefficient plot of the words in positive_words and	1 point
	negative_words. (True/False) The relative order of coefficients is preserved as the L2 penalty is increased. (For example, if the coefficient for 'cat' was more positive than that for 'dog', this remains true as the L2 penalty increases.)	
	True False	

6.	Questions 7, 8, and 9 ask you about the 6 models trained with different L2 penalties. Which of the following models has the highest accuracy on the training data?	1 point
	Model trained with L2 penalty = 0 Model trained with L2 penalty = 4 Model trained with L2 penalty = 10 Model trained with L2 penalty = 100 Model trained with L2 penalty = 1e3 Model trained with L2 penalty = 1e5	
7.	Questions 7, 8, and 9 ask you about the 6 models trained with different L2 penalties. Which of the following models has the highest accuracy on the validation data?	1 point
	Model trained with L2 penalty = 0 Model trained with L2 penalty = 4 Model trained with L2 penalty = 10 Model trained with L2 penalty = 100 Model trained with L2 penalty = 1e3 Model trained with L2 penalty = 1e5	
8.	Questions 7, 8, and 9 ask you about the 6 models trained with different L2 penalties. Does the highest accuracy on the training data imply that the model is the best one? Yes No	1 point