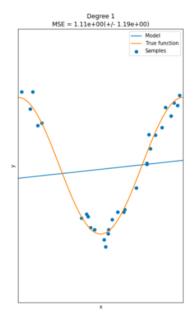
Quiz: Model Refinement

1.	What is the correct use of the "train_test_split" function such that 40% of the data samples will be utilized for testing, the parameter "random_state" is set to zero, and the input variables for the features and targets are x_data, y_data respectively?	1 point
	train_test_split(x_data, y_data, test_size=0, random_state=0.4)	
	train_test_split(x_data, y_data, test_size=0.4, random_state=0)	
	train_test_split(x_data, y_data)	
2.	What is the output of the following code?	1 point
	1 cross_val_score(lre, x_data, y_data, cv=2)	
	This function finds the free parameter alpha	
	The average R^2 on the test data for each of the two folds	
	The predicted values of the test data using cross-validation	
2	What is the code to create a ridge regression object RR with an alpha term equal to 10?	1 point
٥.	1 RR=LinearRegression(alpha=10)	1 point
	M. Elica Reg. e 53 con (al pina 10)	
	1 RR=Ridge(alpha=10)	
	RR=Ridge(alpha=10)	
	1 PP_Didge(alabar1)	
	1 RR=Ridge(alpha=1)	

4.		t dictionary value would we use to perform a grid search for the following values of alpha? 1,10, 100. No other meter values should be tested	1 point
	0	1 alpha=[1,10,100]	
	•	1 [{'alpha': [1,10,100]}]	
	0	1 [[{'alpha': [0.001,0.1,1, 10, 100, 10000,100000,100000],'normalize':[True ,False]}]	
		ain a ridge regression model, you get a R^2 of 1 on your training data and you get a R^2 of 0 on your validation what should you do?	1 point
) No	othing, your model performs flawlessly on your validation data	
() Yo	our model is under fitting; so perform a polynomial transform	
6	Yo	our model is overfitting, so increase the parameter alpha	
	10	of moder is over itting, so the ease the parameter alpha	
6.	Con	sider the following diagram of 4 fold cross-validation. From the diagram how many folds are used for training?	1 point
			, po
		training test	
		test	
	()	3	
	0	4	
		1	
		•	

7. The following is an example of what?



- Overfitting
- O Perfect fit
- Underfitting