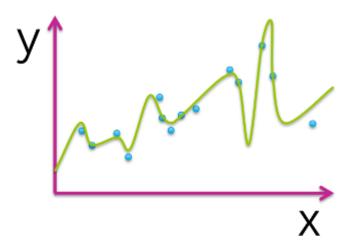
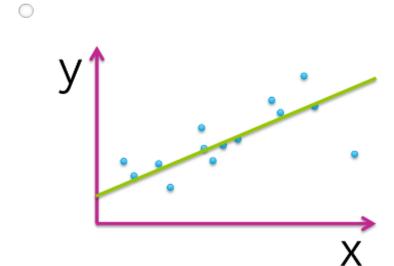
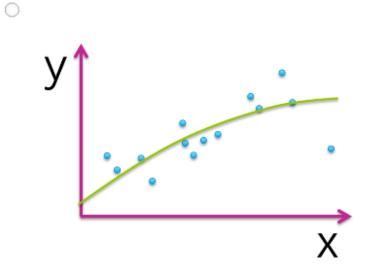
Quiz - Regression

Which figure represents an overfitted model?









True or false: The model that best minimizes training error is the one that will
perform best for the task of prediction on new data.





1 point 3. The following table illustrates the results of evaluating 4 models with different parameter choices on some data set. Which of the following models fits this data the best?

Model index	Parameters (intercept, slope)	Residual sum of squares (RSS)
1	(0,1.4)	20.51
2	(3.1,1.4)	15.23
3	(2.7, 1.9)	13.67
4	(0, 2.3)	18.99

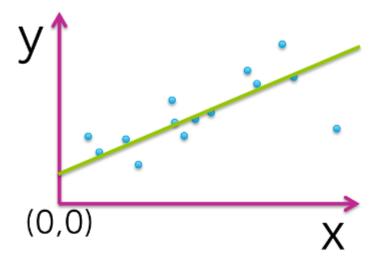
Model 1

Model 2

Model 3

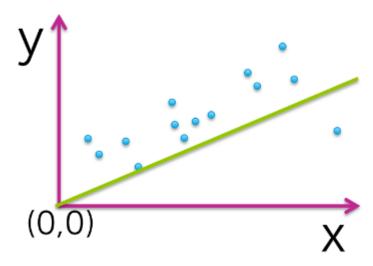
Model 4

4. Assume we fit the following quadratic function: f(x) = w0+w1*x+w2*(x^2) to the dataset shown (blue circles). The fitted function is shown by the green curve in the picture below. Out of the 3 parameters of the fitted function (w0, w1, w2), which ones are estimated to be 0? (Note: you must select all parameters estimated as 0 to get the question correct.)



- w0
- W1
- w.
- none of the above

5. Assume we fit the following quadratic function: f(x) = w0+w1*x+w2*(x^2) to the dataset shown (blue circles). The fitted function is shown by the green curve in the picture below. Out of the 3 parameters of the fitted function (w0, w1, w2), which ones are estimated to be 0? (Note: you must select all parameters estimated as 0 to get the question correct.)



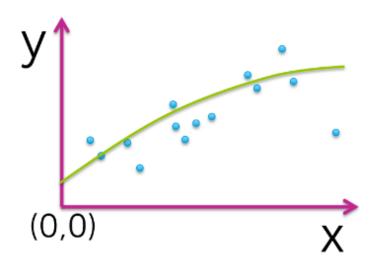
w

w

____ w2

none of the above

6. Assume we fit the following quadratic function: f(x) = w0+w1*x+w2*(x^2) to the dataset shown (blue circles). The fitted function is shown by the green curve in the picture below. Out of the 3 parameters of the fitted function (w0, w1, w2), which ones are estimated to be 0? (Note: you must select all parameters estimated as 0 to get the question correct.)



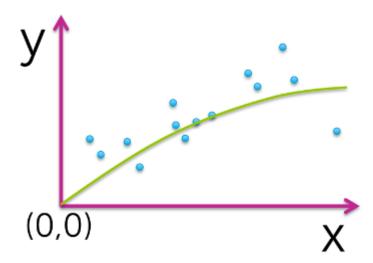
w0

w

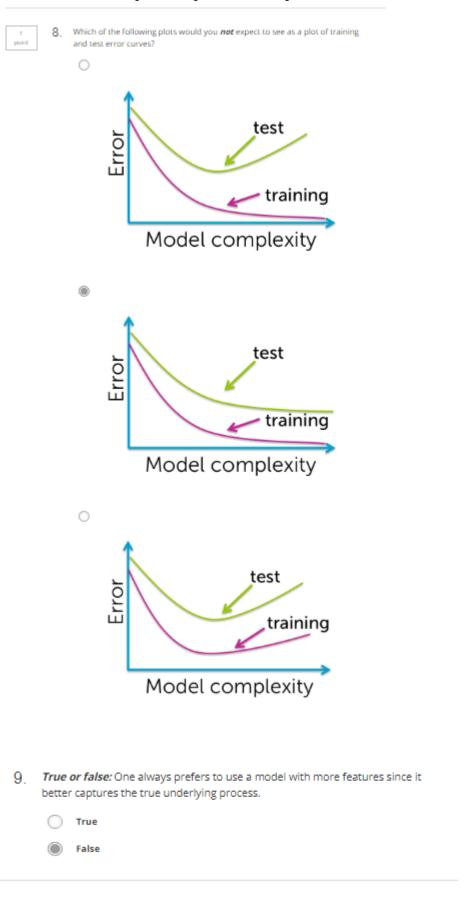
W

none of the above

7. Assume we fit the following quadratic function: f(x) = w0+w1*x+w2*(x^2) to the dataset shown (blue circles). The fitted function is shown by the green curve in the picture below. Out of the 3 parameters of the fitted function (w0, w1, w2), which ones are estimated to be 0? (Note: you must select all parameters estimated as 0 to get the question correct.)



- w0
- W
- W2
- none of the above



Assignment - Predicting Housing Prices

← Predicting house prices

Quiz, 3 questions

1 point	1. Selection and summary statistics: We found the zip code with the highest average house price. What is the average house price of that zip code?		
	\$75,000		
	\$7,700,000		
	\$540,088		
	\$2,160,607		
1 point	2. Filtering data: What fraction of the houses have living space between 2000 sq.ft. and 4000 sq.ft.?		
	Between 0.2 and 0.29		
	Between 0.3 and 0.39		
	Between 0.4 and 0.49		
	Between 0.5 and 0.59		
	Between 0.6 and 0.69		
1 3.	the RMSE of the model with advanced_features lower by between \$35,000 the RMSE of the model with advanced_features lower by between \$35,000 the RMSE of the model with advanced_features lower by between \$35,001 and \$35,000 the RMSE of the model with advanced_features lower by between \$35,001 and \$45,000 the RMSE of the model with advanced_features lower by between \$45,001 and \$55,000 the RMSE of the model with advanced_features lower by between \$45,001 and \$55,000		