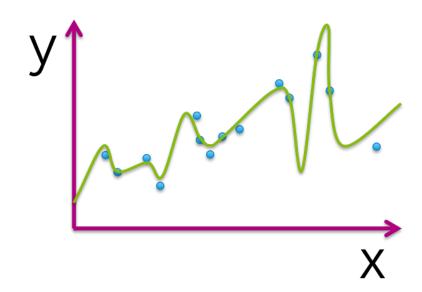
Quiz, 9 questions

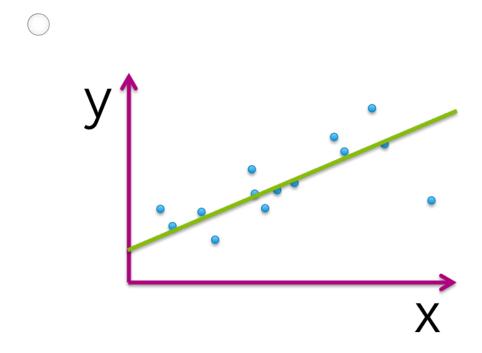
1 point

1

Which figure represents an overfitted model?

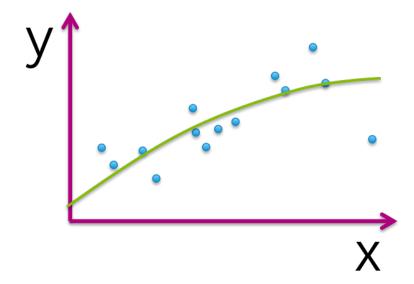








Quiz, 9 questions



1 point

2.

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.

True

False

1 point

Quiz, 9 questions

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?

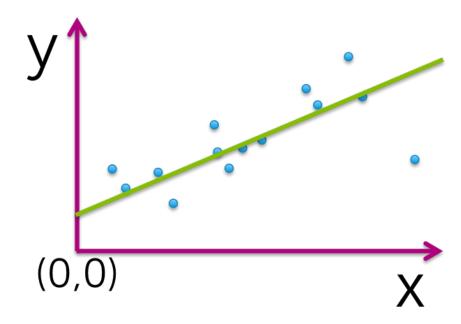
Model index	Parameters (intercept, slope)	Residual sum of squares (RSS)
1	(0,1.4)	20.51
2	(3.1,1.4)	15.23
3	(2.7, 1.9)	13.67
4	(0, 2.3)	18.99

Model 1		
Model 2		
Model 3		
Model 4		

1 point

Quiz, 9 questions

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.)

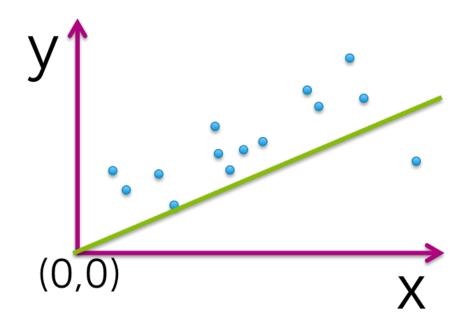


w0
w1
w2
none of the above

1 point

Quiz, 9 questions

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.)

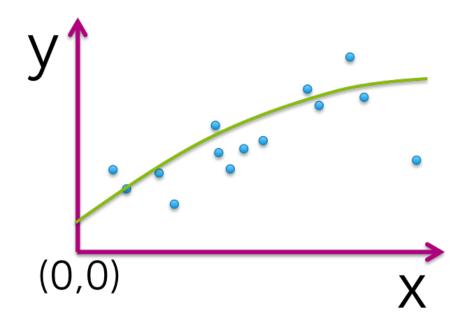


w0
w1
w2
none of the above

1 point

Quiz, 9 questions

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.)

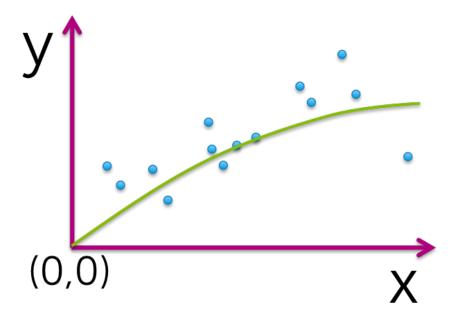


w0
w1
w2
none of the above

1 point

Quiz, 9 questions

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

w2

none of the above

1 point

8.

Which of the following plots would you **not** expect to see as a plot of training and test error curves?

https://www.coursera.org/learn/ml-foundations/exam/3zoDg/regression