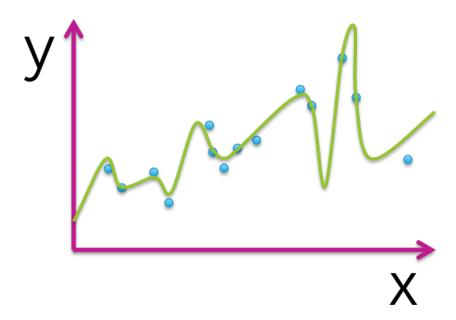
Regression

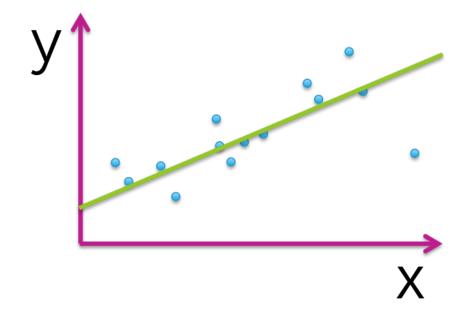
9 questions

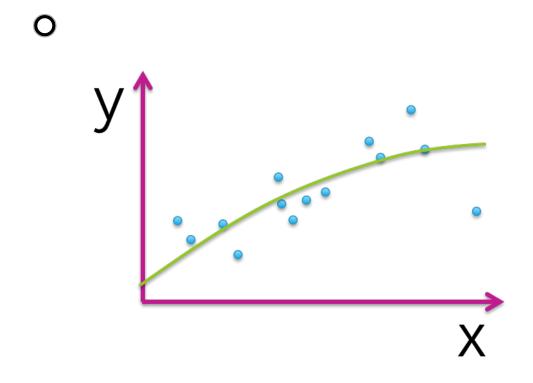
Which figure represents an overfitted model?

 O



0





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.

0	True	
0) False	

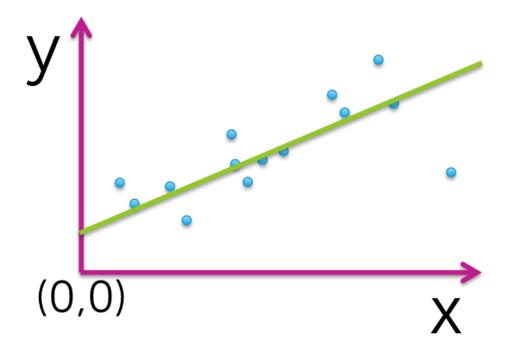
The following table illustrates the results of evaluating 4 models with different parameter choices on some data set. Which of the following models fits this data the best?

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

O	Model 1
0	Model 2
0	Model 3
0	Model 4

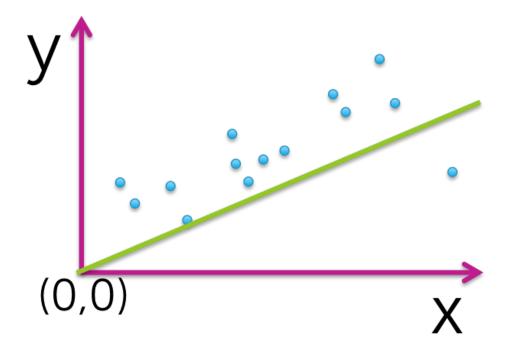
4.

Assume we fit the following quadratic function: $f(x) = w0+w1*x+w2*(x^2)$. Based on the following picture, which estimated coefficients do we know are exactly 0? (*Part 1*)



- w0
- \square w₁
- ___ w2
- none of the above

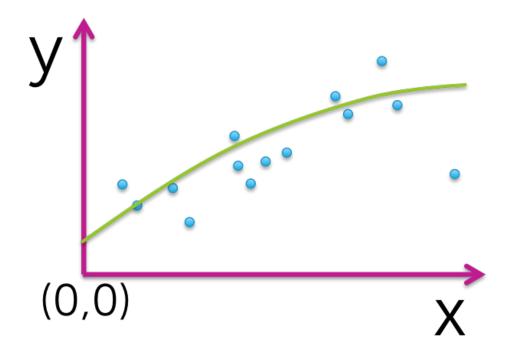
Assume we fit the following quadratic function: $f(x) = w0+w1*x+w2*(x^2)$. Based on the following picture, which estimated coefficients do we know are exactly 0? (*Part 2*)



- ___ w0

- none of the above

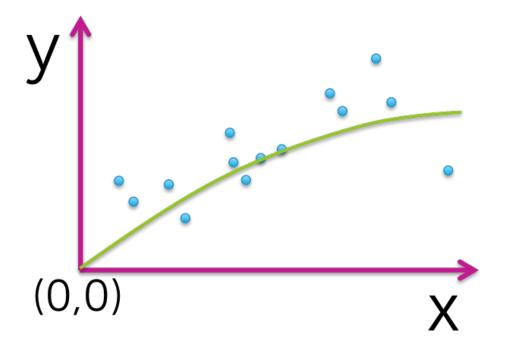
Assume we fit the following quadratic function: $f(x) = w0+w1*x+w2*(x^2)$. Based on the following picture, which estimated coefficients do we know are exactly 0? (*Part 3*)



- ____ w0

- none of the above

Assume we fit the following quadratic function: $f(x) = w0+w1*x+w2*(x^2)$. Based on the following picture, which estimated coefficients do we know are exactly 0? (*Part 4*)

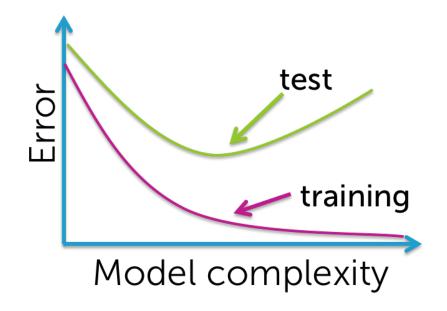


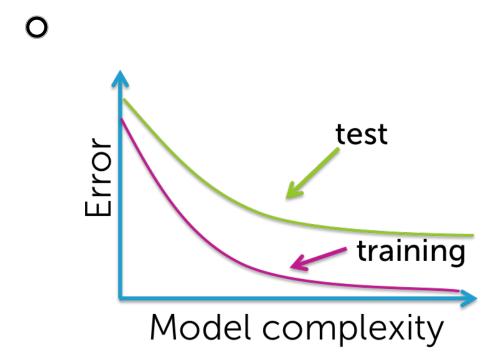
- ____ w0
- w1
- none of the above

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

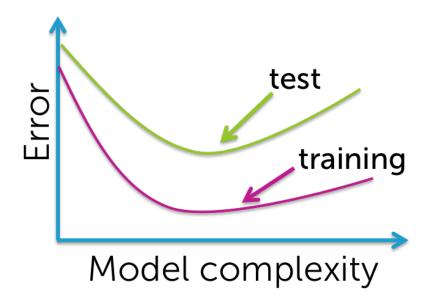
O

Help Center





С



True or false: One always prefers to use a model with more features since it better captures the true underlying process.

- O True
- False

Submit Quiz



