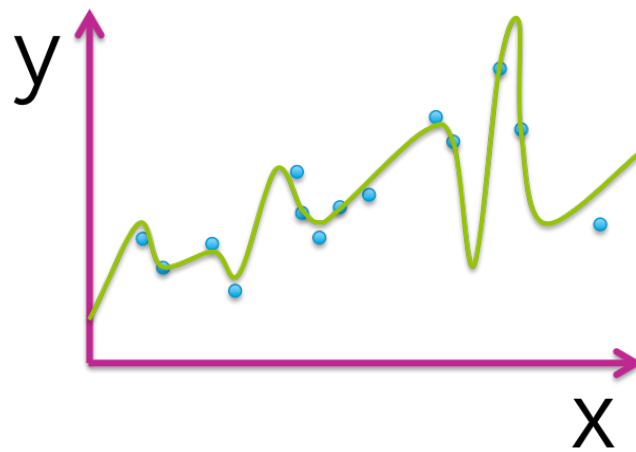


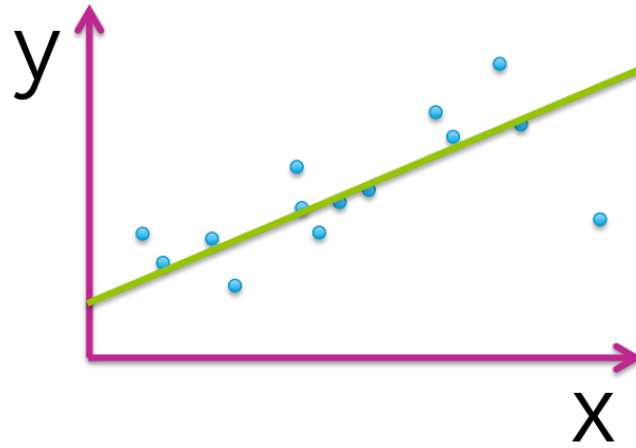
Regression

9 试题

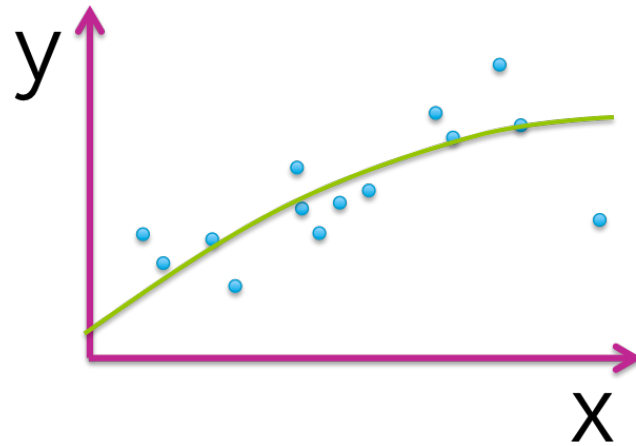
1
point

1.
Which figure represents an overfitted model?





☐



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

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?

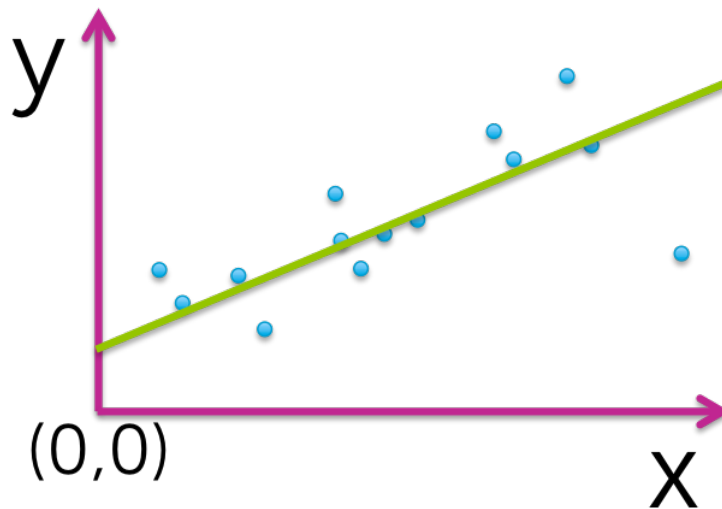
Model index	Parameters (intercept, slope)	Residual sum of squares (RSS)
1	(0,1.4)	20.51
2	(3.1,1.4)	15.23
3	(2.7, 1.9)	13.67
4	(0, 2.3)	18.99

- ☐ **Model 1**
- ☐ **Model 2**
- ☒ **Model 3**
- ☐ **Model 4**
-

1
point

4.

Assume we fit the following quadratic function: $f(x) = w_0 + w_1x + w_2x^2$ 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 (w_0, w_1, w_2), which ones are estimated to be 0? (Note: you must select all parameters estimated as 0 to get the question correct.)

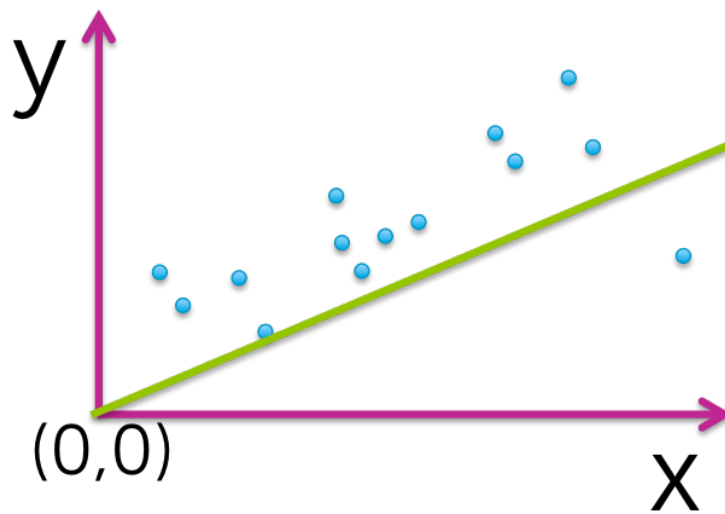


- ☐ **w0**
- ☐ **w1**
- ☒ **w2**
- ☐ **none of the above**

1
point

5.

Assume we fit the following quadratic function: $f(x) = w_0 + w_1x + w_2x^2$ 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 (w_0, w_1, w_2), which ones are estimated to be 0? (Note: you must select all parameters estimated as 0 to get the question correct.)

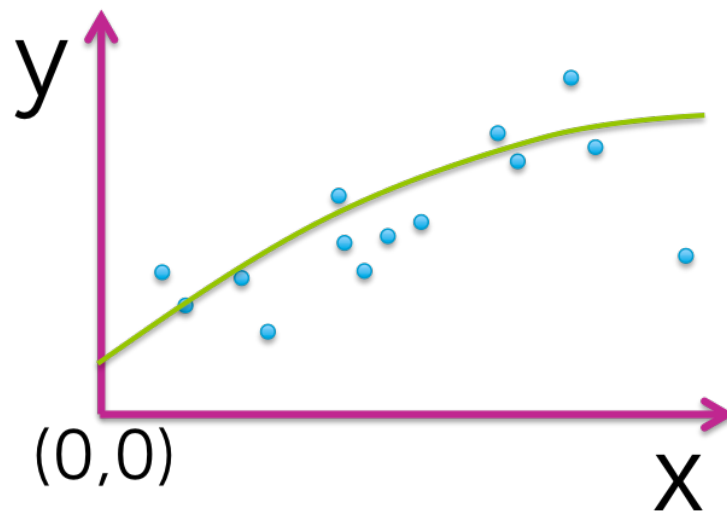


- ☒ **w0**
- ☐ **w1**
- ☒ **w2**
- ☐ **none of the above**

1
point

6.

Assume we fit the following quadratic function: $f(x) = w_0 + w_1x + w_2x^2$ 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 (w_0, w_1, w_2), which ones are estimated to be 0? (Note: you must select all parameters estimated as 0 to get the question correct.)

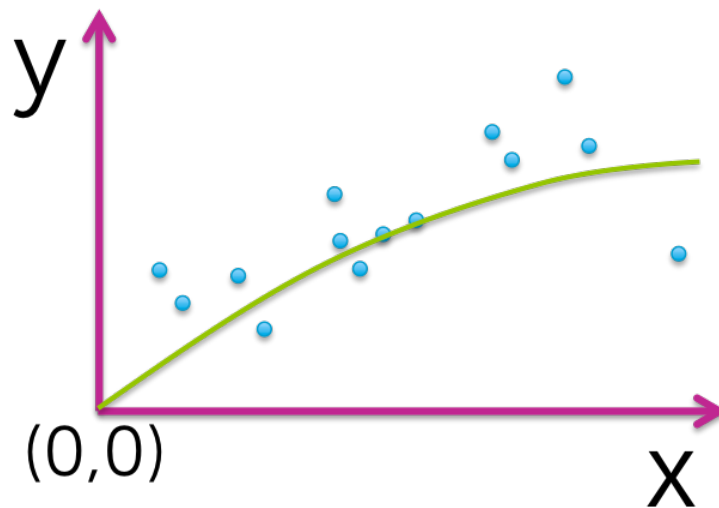


- ☐ **w0**
- ☐ **w1**
- ☐ **w2**
- ☒ **none of the above**

1
point

7.

Assume we fit the following quadratic function: $f(x) = w_0 + w_1x + w_2x^2$ 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 (w_0, w_1, w_2), which ones are estimated to be 0? (Note: you must select all parameters estimated as 0 to get the question correct.)

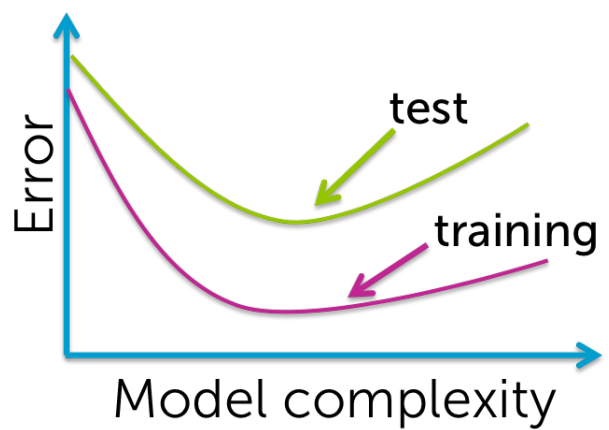
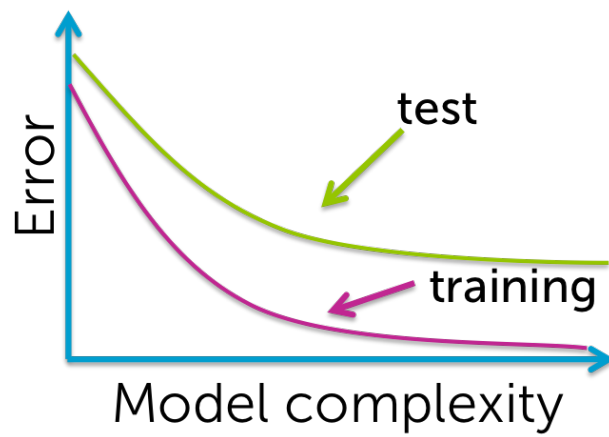
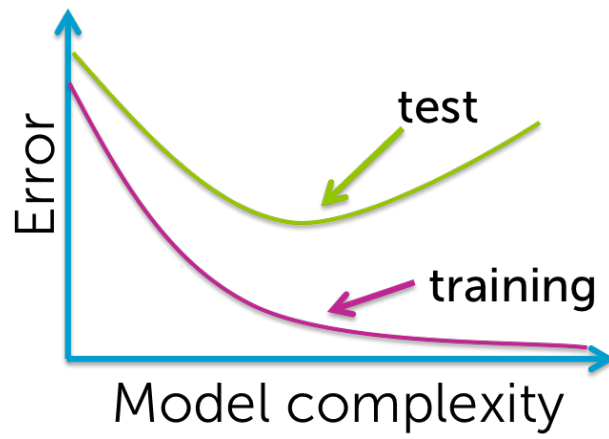


- ☒ **w0**
- ☐ **w1**
- ☐ **w2**
- ☐ **none of the above**

1
point

8.
Which of the following plots would you **not** expect to see as a plot of training and test error curves?





1
point

9.

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

☐ True

☒ False



I, 伟臣 沈, understand that submitting work that isn't my own may result in permanent failure of this course or deactivation of my Coursera account.

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