



Your grade: **100%**

Your latest: 100% • Your highest: 100% • To pass you need at least 70%. We keep your highest score.

Next item →

1. What function randomly splits a data set into training and testing subsets?

1 / 1 point

- ☐ `cross_val_predict()`
- ☒ `train_test_split()`
- ☐ `cross_val_score()`
- ☐ `train_test(split=x)`

✓ Correct

Correct! The function `train_test_split()` randomly splits a data set into training and testing subsets.

2. Consider the model in blue and the samples in blue dots. Which model has the best fit?

1 / 1 point

- ☐ a
- ☒ b
- ☐ c

✓ Correct

Correct! The model seems to fit the data well.

3. In the following plot, the vertical axis shows the mean square error, and the horizontal axis represents the order of the polynomial. The red line represents the training error, and the blue line is the test error. Which order polynomial does this plot indicate you should use for your model?

1 / 1 point

- ☐ 2
- ☒ 8
- ☐ 16

✓ Correct

Correct! You should use the test error to help you determine the order of your model.

4. The following models were all trained on the same data. Select the model with the highest alpha value.

1 / 1 point

- ☐ a
- ☐ b
- ☒ c

✓ **Correct**

Correct! The highest alpha value is usually the model with the most underfitting.

5. The following models were all trained on the same data. Select the model with the lowest value for alpha.

1 / 1 point

- ☒ a
- ☐ b
- ☐ c

✓ **Correct**

Correct! The lowest alpha value is usually the model with the most overfitting.