

## Graded Review Questions

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### Graded Review Questions Instructions

- Time allowed: **Unlimited**
  - We encourage you to go back and review the materials to find the right answer
  - Please remember that the Review Questions are worth 50% of your final mark.
- Attempts per question:
  - One attempt - For True/False questions
  - Two attempts - For any question other than True/False
- Clicking the "**Final Check**" button when it appears, means your submission is **FINAL**. You will **NOT** be able to resubmit your answer for that question ever again
- Check your grades in the course at any time by clicking on the "Progress" ta

#### Question 1

1/1 point (graded)

Let `x` be a dataframe with 100 rows and 5 columns. Let `y` be the target with 100 samples. Assuming all the relevant libraries and data have been imported, the following line of code has been executed:

```
LR = LinearRegression()
```

```
LR.fit(X, y)
```

```
yhat = LR.predict(X)
```

How many samples does `yhat` contain?

- ☐ 5
- ☐ 500
- ☒ 100
- ☐ 0

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 Correct (1/1 point)

#### Question 2

1/1 point (graded)

What value of  $R^2$  (coefficient of determination) indicates your model performs best?

- ☐ -100
- ☐ -1
- ☐ 0
- ☒ 1

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 Correct (1/1 point)

#### Question 3

1/1 point (graded)

Which statement is true about polynomial linear regression?

- ☐ Polynomial linear regression is not linear in any way.
- ☒ Although the predictor variables of polynomial linear regression are not linear, the relationship between the parameters or coefficients is linear.
- ☐ Polynomial linear regression uses wavelets.

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#### Question 4

1/1 point (graded)

The larger the mean squared error, the better your model performs:

- ☒ False
- ☐ True

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 Correct (1/1 point)

#### Question 5

1/1 point (graded)

Assume all the libraries are imported. `y` is the target and `X` is the features or dependent variables. Consider the following lines of code:

```
Input=[('scale',StandardScaler()),('model',LinearRegression())]
```

```
pipe=Pipeline(Input)
```

```
pipe.fit(X,y)
```

```
ypipe=pipe.predict(X)
```

What is the result of `ypipe`?

- ☐ Polynomial transform, standardize the data, then perform a prediction using a linear regression model.
- ☒ Standardize the data, then perform prediction using a linear regression model.
- ☐ Polynomial transform, then standardize the data.

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