



[Curso](#) > [Module 4 - Model D...](#) > [Graded Review Que...](#) > Graded Review Que...

## Graded Review Questions

### Graded Review Questions Instructions

1. 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.

2. Attempts per question:

- One attempt - For True/False questions
- Two attempts - For any question other than True/False

3. 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

4. Check your grades in the course at any time by clicking on the "Progress" ta

### Question 1

1/1 punto (calificado)

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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Ha realizado 1 de 2 intentos

## Question 2

1/1 punto (calificado)

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

☐ -100

☐ -1

☐ 0

☒ 1



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### Question 3

1/1 punto (calificado)

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 punto (calificado)

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

☒ False☐ True

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## Question 5

1/1 punto (calificado)

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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