COGNITIVE CLASS.ai

IBM: DA0101EN

Data Analysis with Python

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Graded Review Questions
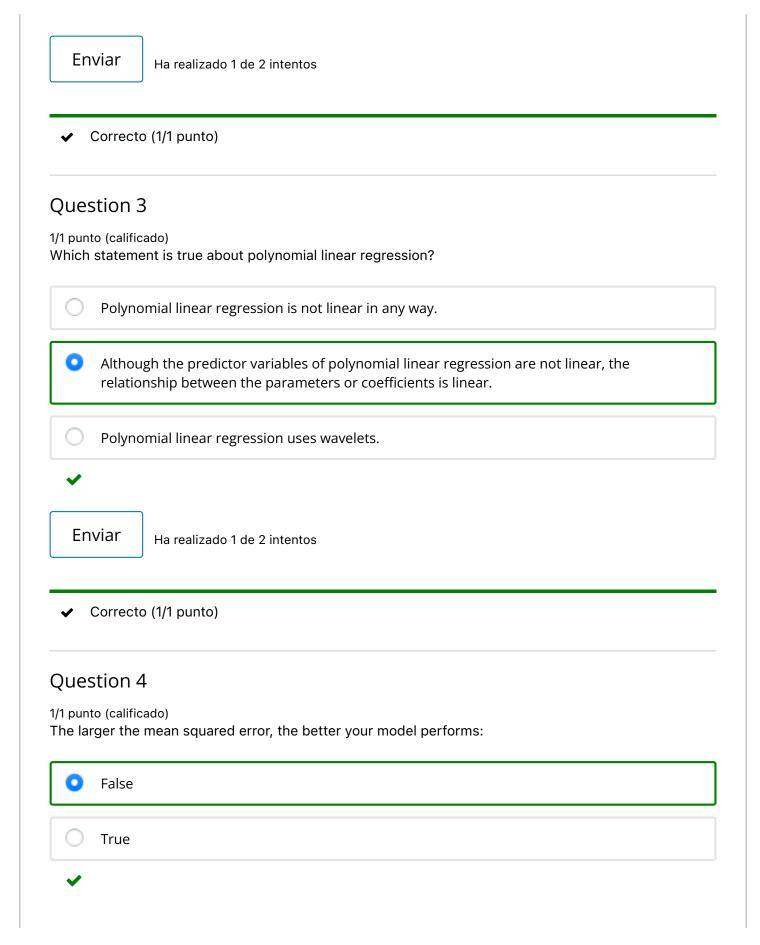# Graded Review Questions Instructions

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

✔

| Enviar | Ha realizado 1 de 2 intentos |

✔ Correcto (1/1 punto)

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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✔ Correcto (1/1 punto)

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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✔ Correcto (1/1 punto)

Question 4

1/1 punto (calificado)
The larger the mean squared error, the better your model performs:

◉ False

○ True

✔

Enviar	Ha realizado 1 de 1 intento

✔ Correcto (1/1 punto)

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.

✔

Enviar	Ha realizado 1 de 2 intentos

✔ Correcto (1/1 punto)