21 When implementing linear regression of some dependent variable y on the set of independent variables $\mathbf{x} = (x_1, ..., x_r)$, where r is the number of predictors, which of the following statements will be true?

Ans. Both and b

22

What indicates that you have a **perfect fit** in linear regression?

Ans. The value $R^2 < 1$, which corresponds to SSR = 0

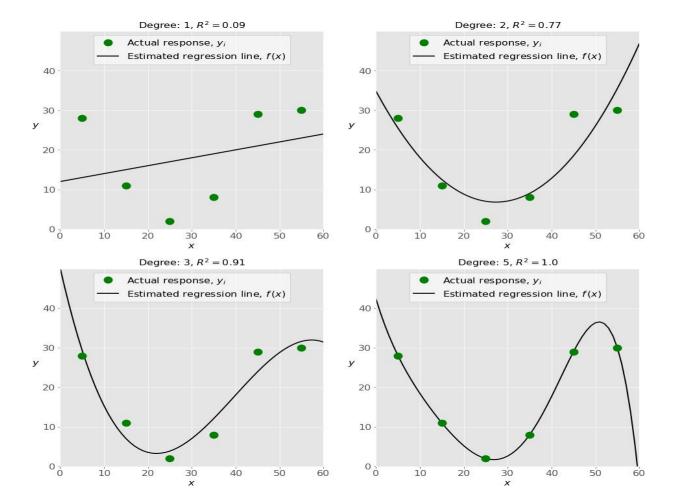
23)

In simple linear regression, the value of **what** shows the point where the estimated regression line crosses the *y* axis?

Ans. Y

24)

Check out these four linear regression plots:



Which one represents an underfitted model?

a) The bottom-left plot

25)

There are five basic steps when you're implementing linear regression:

- a. Check the results of model fitting to know whether the model is satisfactory.
- **b.** Provide data to work with, and eventually do appropriate transformations.
- **c.** Apply the model for predictions.
- **d.** Import the packages and classes that you need.
- **e.** Create a regression model and fit it with existing data.

However, those steps are currently listed in the wrong order. What's the correct order?

26) Wh	nich of the following are optional parameters to LinearRegression in scikit-learn?
a)	Fit
b)	fit_intercept
c)	normalize
	copy_X
	n_jobs
f)	reshape
	ile working with scikit-learn, in which type of regression do you need to transform the array of o include nonlinear terms such as x^2 ?
Ans. Po	lynomial regression
28) You	should choose statsmodels over scikit-learn when:
Ans.	You need more detailed results.
comprel transfor	is a fundamental package for scientific computing with Python. It offers hensive mathematical functions, random number generators, linear algebra routines, Fourier ms, and more. It provides a high-level syntax that makes it accessible and productive.
Ans. Nur	mpy
interfac	is a Python data visualization library based on Matplotlib. It provides a high-level e for drawing attractive and informative statistical graphics that allow you to explore and and your data. It integrates closely with pandas data structures.

Ans. Seaborn