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 a 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

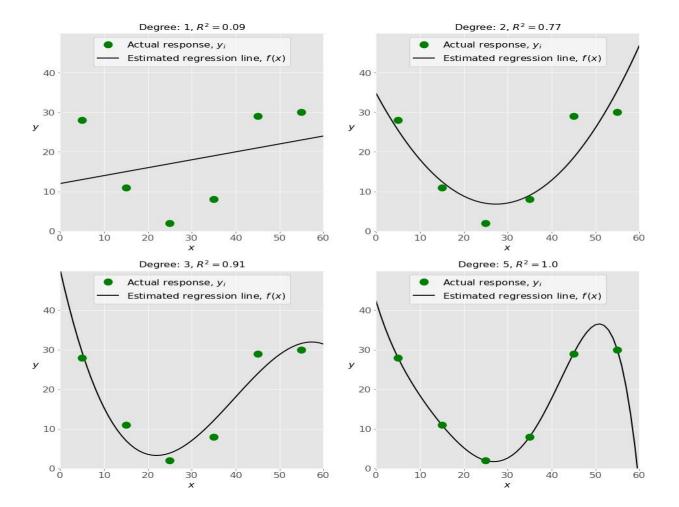
23)

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

ANS-B0

24)

Check out these four linear regression plots:



Which one represents an underfitted model?

ANS-The top-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?

30 )\_\_\_\_\_\_is a Python data visualization library based on Matplotlib. It provides a high-level interface for drawing attractive and informative statistical graphics that allow you to explore and

understand your data. It integrates closely with pandas data structures.

ANS-Numpy

ANS-Seaborn

of