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

- a)  $\beta_0$ ,  $\beta_1$ , ...,  $\beta_r$  are the regression coefficients.
- b) Linear regression is about determining the best predicted weights by using the method of ordinary least squares.
- c) E is the random interval
- d) Both a and b

## 22 ) What indicates that you have a perfect fit in linear regression?

- a) The value  $R^2 < 1$ , which corresponds to SSR = 0
- b) The value  $R^2 = 0$ , which corresponds to SSR = 1
- c) The value  $R^2 > 0$ , which corresponds to SSR = 1
- d) 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?

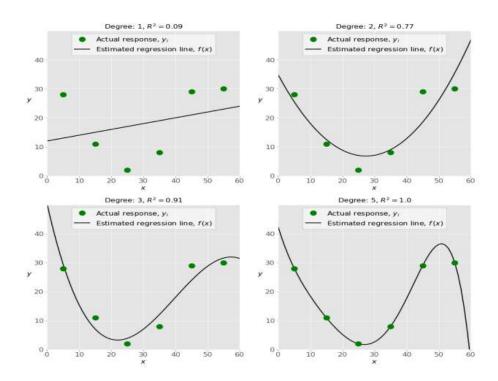
a) Y

b) B0

c) B1

d) F

## 24) Check out these four linear regression plots:



30 )	is a Python data visualization library based on Matplotlib. It provides a high-
level interface j	for drawing attractive and informative statistical graphics that allow you to
explore and un	derstand your data. It integrates closely with pandas data structures.

- a) Bokeh
- b) Seaborn c) Matplotlib
- d) Dash