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: a) β_0 , β_1 , ..., β_r are the regression coefficients.

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

Ans: 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?

Ans: b) B0

24) Check out these four linear regression plots:

Ans: d) The top-left plot

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

Ans: E)b,d,e,a,c

26) Which of the following are optional parameters to LinearRegression in scikit-learn?

Ans: b) fit_intercept

27) While working with scikit-learn, in which type of regression do you need to transform the array of inputs to include nonlinear terms such as x^2 ?

Ans: c) Polynomial regression

28) You should choose statsmodels over scikit-learn when:

Ans: c) You need more detailed results.

29) You should choose statsmodels over scikit-learn when:

Ans: b) Numpy

30)	is a Python data visualization library based on Matplotlib. It provides a high-level
interface for dr	awing attractive and informative statistical graphics that allow you to explore and
understand you	ır data. It integrates closely with pandas data structures.

Ans: b) Seaborn