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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: B0
24. Check out these four linear regression plots:
Which one represents an underfitted model?
Ans: The top-left plot (R2=0.09)
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	a regression model and fit it with existing data.	
However, those steps are currently listed in the wrong order. What's the correct order?		
Ans: d, b, e,	a. C	
,,,,		
26. Which o	f the following are optional parameters to LinearRegression in scikit-learn?	
Ans: fit_inte	ercept, normalize, copy_X & n_jobs.	
27. While w	orking with scikit-learn, in which type of regression do you need to transform the array of	
inputs to inc	clude nonlinear terms such as x^2 ?	
Ans: Polyno	mial regression	
28. You sho	uld choose statsmodels over scikit-learn when:	
Ans: You ne	ed more detailed results.	
29	is a fundamental package for scientific computing with Python. It offers	
	sive mathematical functions, random number generators, linear algebra routines, Fourier	
	and more. It provides a high-level syntax that makes it accessible and productive.	
Ans: Numpy	,	
30	is a Python data visualization library based on Matplotlib. It provides a high-level	
interface for	r drawing attractive and informative statistical graphics that allow you to explore and	
understand	your data. It integrates closely with pandas data structures.	

Ans: Seaborn