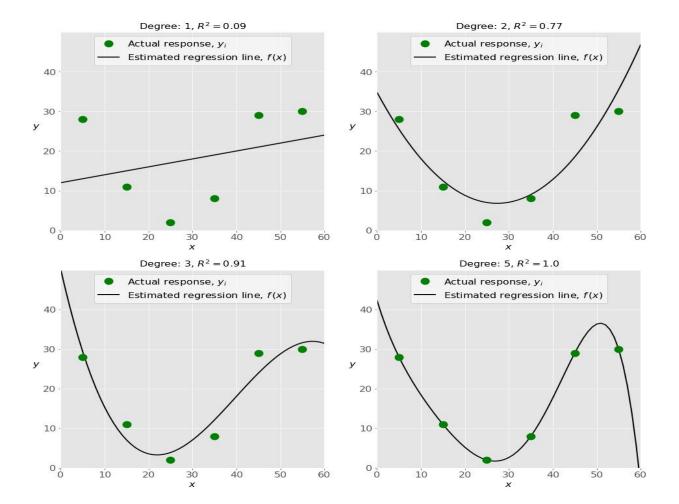
21 When implementing linear regression of some dependent variable y on the set of independent variables $\mathbf{x} = (x_1,, x_r)$, where r is the number of predictors, which of the following statements will be true?
a)
b)
c)
d) Both a and b
22)
What indicates that you have a perfect fit in linear regression?
 a) b) c) d) The value R² = 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) b) B0 c) d)
24)
Check out these four linear regression plots:



Which one represents an underfitted model?

- a)
- b)
- c)
- d) 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?		
a) b) c) d) d, b, e, a, c		
26) Which of the following are optional parameters to LinearRegression in scikit-learn?		
a) b) c) normalize d) copy_X e) n_jobs f) reshape (these are optional parameters in LinearRegression in Scikit-learn)		
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 ?		
a)		
b)		
c) Polynomial regression		
28) You should choose stats models over scikit-learn when:		
a)		
b)		
c) You need more detailed results.		
d)		
29) is a fundamental package for scientific computing with Python. It offers comprehensive mathematical functions, random number generators, linear algebra routines, Fourier transforms, and more. It provides a high-level syntax that makes it accessible and productive.		
a)		
b) Numpy		
c)		
d)		

30)	is a Python data visualization library based on Matplotlib. It provides a high-level
/	awing attractive and informative statistical graphics that allow you to explore and
understand you	r data. It integrates closely with pandas data structures.
a)	
b)	Seaborn
c)	
d)	