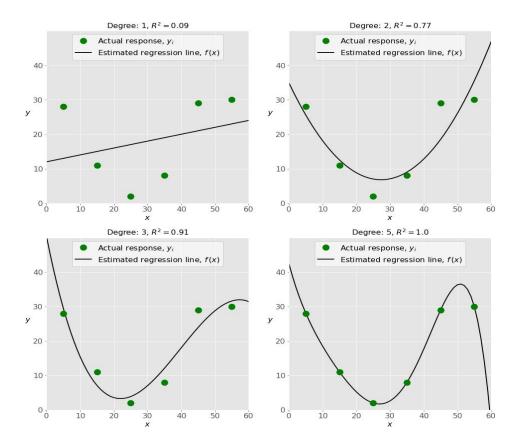
21	When implementing linear regression of some dependent variable y on the set of independent
var	riables $\mathbf{x} = (x_1,, x_r)$, where r is the number of predictors, which of the following statements will
be	true?

- 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**.
- 22)What indicates that you have a **perfect fit** in linear regression?
 - 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) B0
- 24)Check out these four linear regression plots:

Which one represents an **underfitted** model?

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?

D)d, b, e, a, c

b) normalize c) copy_X d) n_jobs	
27) While working with scikit-learn, in which type of regression do you need to tran inputs to include nonlinear terms such as x^2 ?	sform the array of
C)Polynomial regression	
28) You should choose statsmodels over scikit-learn when: C)You need more detailed results.	
29)is a fundamental package for scientific computing with Python. It offers commathematical functions, random number generators, linear algebra routines, Fourier and more. It provides a high-level syntax that makes it accessible and productive. B)NumPy	_
30) is a Python data visualization library based on Matplotlib. It provides a high for drawing attractive and informative statistical graphics that allow you to explore a your data. It integrates closely with pandas data structures.	
B)Seaborn	

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

a) fit_intercept