

21 Answer d: Both $\beta_0, \beta_1, \dots, \beta_r$ are the regression coefficients and Linear regression is about determining the best predicted weights by using the method of ordinary least squares.

22 Answer d: The value $R^2 = 1$, which corresponds to $SSR = 0$

23 Answer b: the value of that shows the point where the estimated regression line crosses the y axis is B_0

24 Answer d: The top-left plot

25 Answer d: d, b, e, a, c

26 b) `fit_intercept` c) `normalize` d) `copy_X` e) `n_jobs`

27 c) Polynomial regression

28 c) You need more detailed results.

29 b) Numpy 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.

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