Machine Learning

1) A

2) A

3) B

4) C

5) C

6) B

7) D

8) D

9) A

10) B

11) B

12) A, B

13) Regularization is a technique used in machine learning to prevent overfitting by adding a penalty term to the loss function. It helps to control the complexity of the model and avoid excessive reliance on specific features.

14) Some algorithms used for regularization include Ridge regression, Lasso regression, Elastic Net, and Dropout in neural networks.

15) The error in the linear regression equation refers to the difference between the predicted values and the actual values of the dependent variable. It represents the deviation or residual between the model's estimated line and the observed data points. The goal of linear regression is to minimize this error, typically measured as the sum of squared errors (SSE) or mean squared error (MSE).