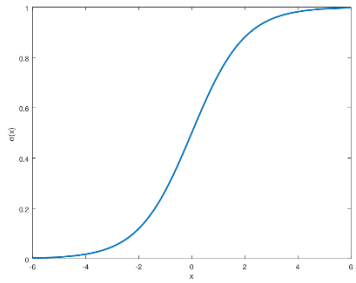
1. Logistic Regression is well suited when Response is discrete and features are continuous
   Ans d
2. Logistic regression can be used in which of the following applications Disease detection
   Ans b
3. As $z \to \infty$, $z \to -\infty$, the logistic function approaches the limits
   $$1,0$$
   Ans c
4. Plot of the sigmoid is



   Ans b
5. The update rule in logistic regression is
   $$\bar{\mathbf{h}}(k+1) = \bar{\mathbf{h}}(k) + \eta\left(y(k+1) - g\left(\bar{\mathbf{x}}(k+1)\right)\right)\bar{\mathbf{x}}(k+1)$$
   Ans c
6. In logistic regression, the quantity $P(y = 1|\bar{\mathbf{x}})$ is modeled as
   $$\frac{1}{1 + e^{-\bar{\mathbf{x}}^T\bar{\mathbf{h}}}}$$
   Ans a
7. Logistic regression can be imported in PYTHON as
   from sklearn.linear_model import LogisticRegression
   Ans c
8. StandardScaler can be imported in PYTHON as
   from sklearn.preprocessing import StandardScaler
   Ans b
9. The metric used to characterize performance of logistic regression is confusion matrix
   Ans c
10. StandardScaler transforms the data to have Zero-mean and unit variance
    Ans d