

Task 1 - Perceptron: point on the line

Consider a line given by the following equation:

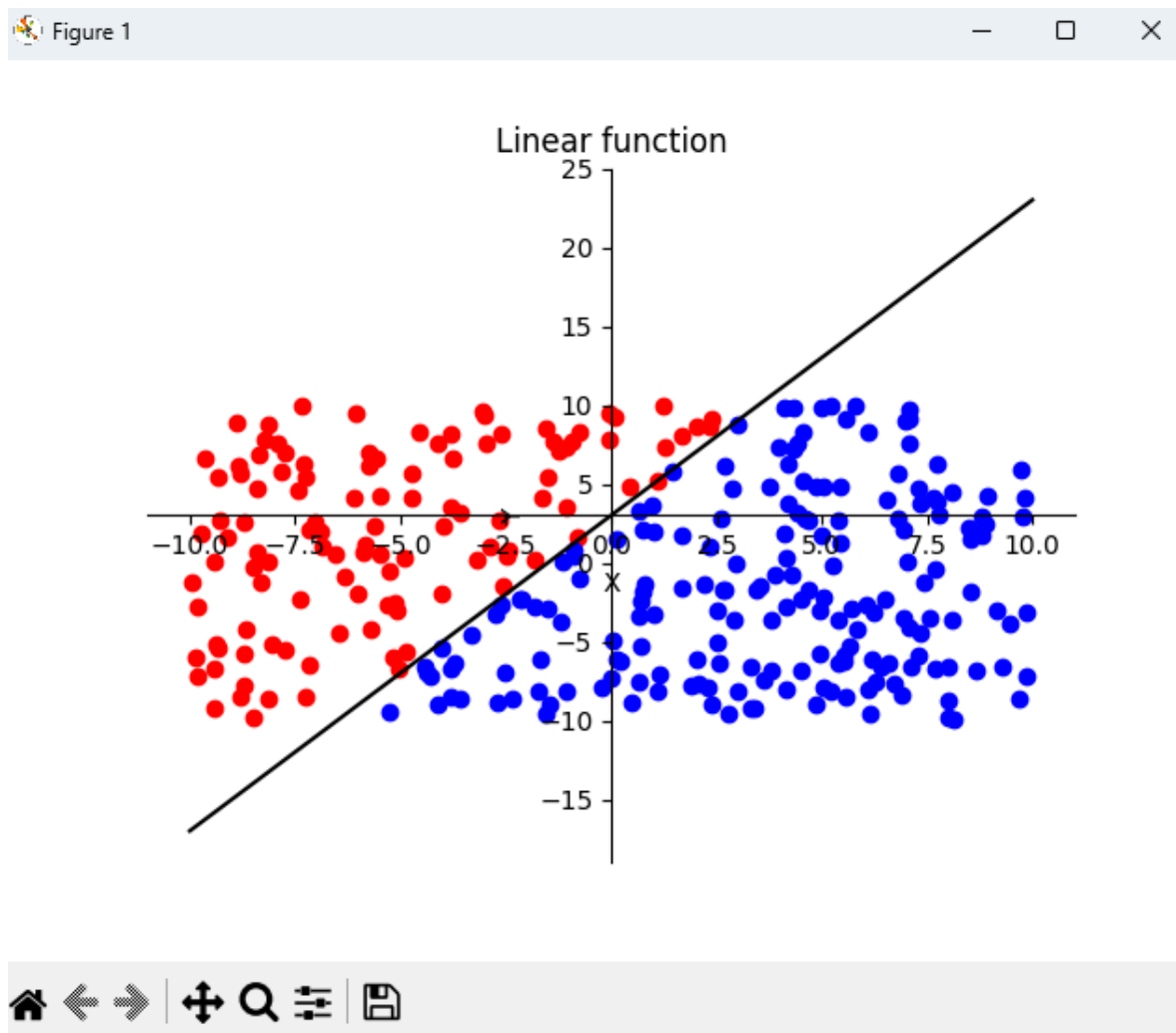
$$y = 3x + 2$$

Task

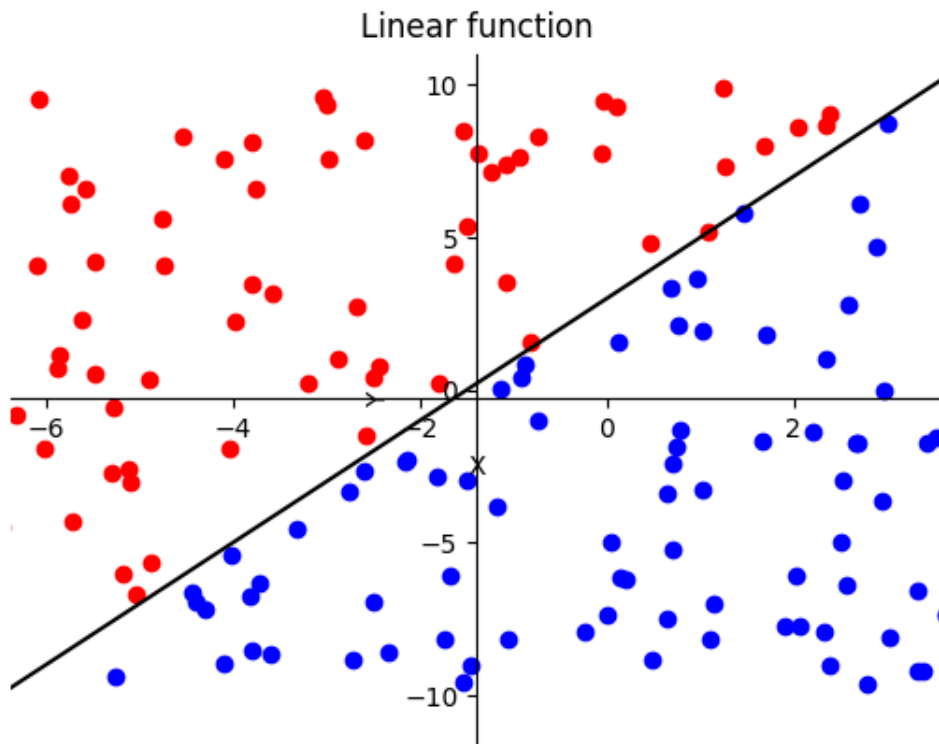
Generate the set of 100 points and use a perceptron to find out whether the points lie above, below, or on the line.

Instructions

Visualize the line and the points (use different colors for points lying above, below, and on the line).



Example 1



Example 2