**Yahya Alhinai**

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**CSCI5521**

**Problem 1:**

Setting the derivative of the function w to zero to minimize the objective function:

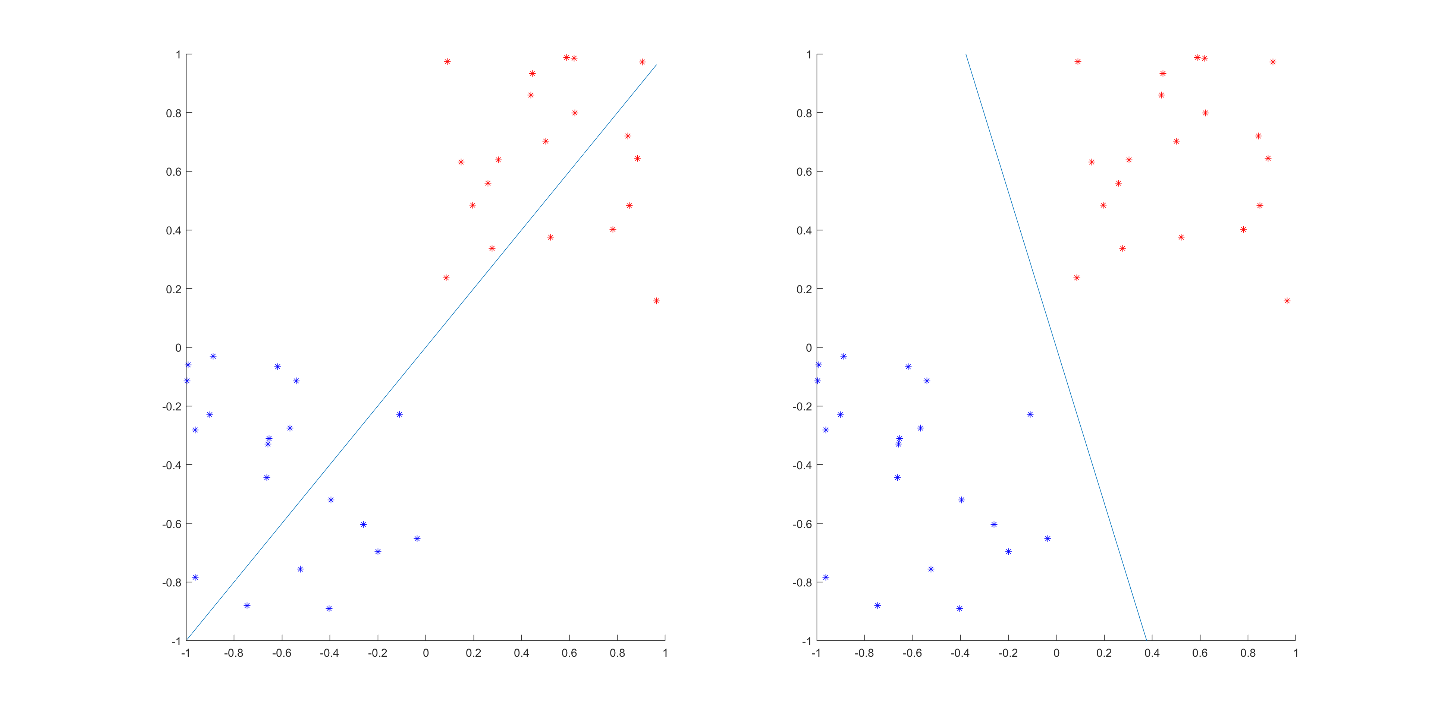
Setting the derivative of the function w to zero to minimize the objective function:

**Problem 2:**



Solve for :

**Problem 3:**

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