

# Homework 6

November 29, 2021

Jose Carlos Munoz

Q1

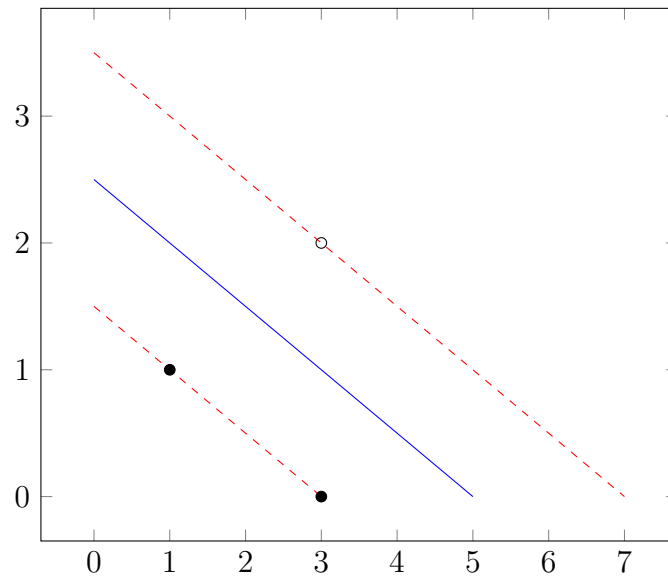


Figure 1: Support Vector with Margin

Q2

1)

There is no real maximum amount of points. But there needs to be an amount of points that are not in the Data set. So the maximum would be the size of the dimension of  $\mathbb{R}$

2)

Regardless of the dimension and amount of data points, the minimum amount of support vectors is 2.