d.) Afer 5 iterations. W does not converge

a) min//w//2

S.t. y: (w· X: +6) ≥ 1

W=[0,0.5,0.5], b = 3.5

Six points and the Classification plane.

Support Vectors = [3,45], [2,7,2], [3,3,2], [2,4,1]

Exercise 12,43

$$\begin{array}{l}
 \text{All} \\
 \text{All$$

b.)
$$f(q) = \begin{cases} 1.5, \times 2.5 \\ 2.5, 2.5 < \times \le 5 \end{cases}$$

$$3.5, 5 < \times \le 10$$

$$4.5, 10 < \times \le 20$$

$$5.5, \times 720$$