

## 第四章作业

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Answer

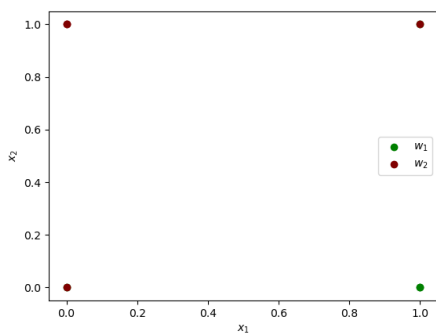
一、 —

$$S_w = \begin{Bmatrix} 0.44444444 & -0.22222222 & -0.22222222 \\ -0.22222222 & 0.44444444 & -0.22222222 \\ -0.22222222 & -0.22222222 & 0.44444444 \end{Bmatrix}$$

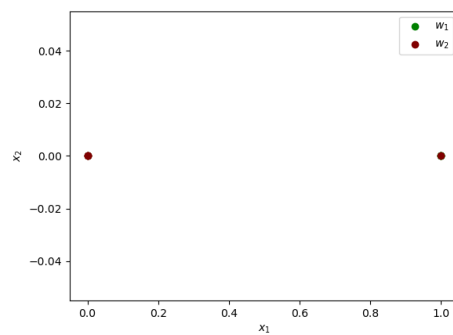
—

$$S_b = \begin{Bmatrix} 0.7654321 & 0.16049383 \\ 0.16049383 & 0.7654321 \end{Bmatrix}$$

二、 如下图：



(a) 2D



(b) 1D