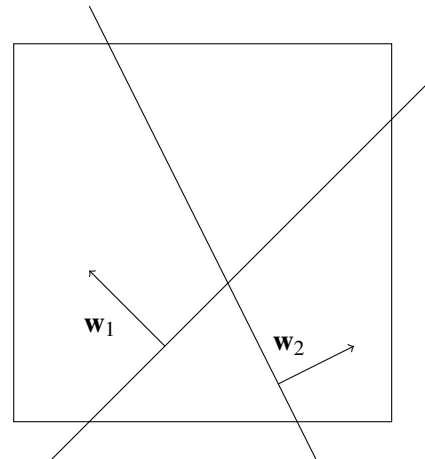
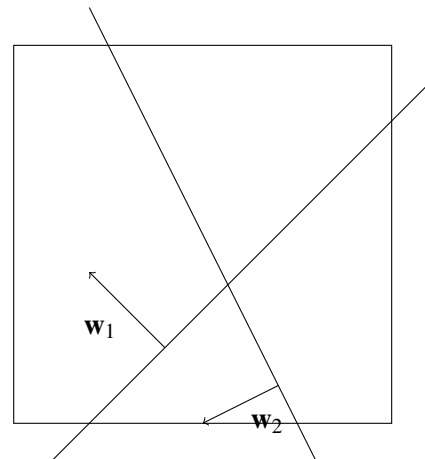


- c. (4 points) The following box represents a 2-dimensional feature space, with the planes and weight vectors associated with C_1 and C_2 . Use a diagram and an explanatory sentence to show how these planes determine a decision boundary, and indicate the decision regions (that is, which part of the feature space will be classified as C_1 and which as C_2).



- d. (4 points) Do the same for the following case (diagram and explanatory sentence). What is the difference?



- e. (4 points) The following diagrams represent possible ways to split the four possible observations of two binary features between two classes. Which of the cases below are consistent with conditional independence of the feature values, given the class?

