1) (5 Points) State whether the following statement is true or false, and justify your answer. Recall that two classifiers \( c \) and \( c' \) are equal if for all \( d \)-dimensional feature vectors \( x \), \( c(x) = c'(x) \).

If two decision trees have zero training error on the same training data set, then they are equal.

2) (5 Points) State if the following statement is true or false, and justify your answer.

If all the feature vectors in the training data are unique, then the training error of the ID3 decision tree algorithm (without pruning) is always zero.