HW 9

- 1) a) It is toght because it has an efficiency of
 - b) It is tight because the algorithm checks all elements of the upper triangular part of the adjacency matrix until a O is found or eall elements are checked. O(n2)
 - on each subset. O(2)

 Not tight. The algorithm takes constant time

 on each subset. O(2)

 Not tight. The lower bound of the algorithm

 is O(nloon).
- 2) a) We can find all the subarmy in polynomial time from 1c, which has a time complexity of 2°. We can the find the sum and return true of their weights are equal.