Homework Assignment: 2 Name: Jonathan Gaines

Date: 3/29/2017

- 1. X Sorting Algorithm
 - (a)

 $EXAMPLE \Rightarrow AXEMPLE \Rightarrow AEXMPLE \Rightarrow AEEMPLX \Rightarrow AEELPMX \Rightarrow AEELMP$

- (b)
- (c)
- 2. Bubble Sort
 - (a)
 - (b)
 - (c)
- 3. Show that $n^2 \in O(n^2 + 10n), n \ge 0$
- 4. Show that $n \notin \Omega(n^2)$