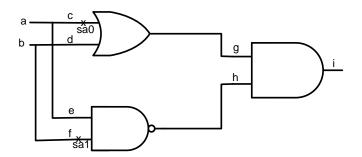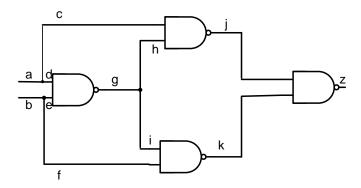# Homework 4

Due on Wednesday 6th November 2013

(1) Show that the two faults c s-a-0 and f s-a-1 are equivalent in the following circuit. [5]

(2) Show that in the exclusive-OR circuit of the following figure, faults c s-a-1 and f s-a-1 are equivalent. [5]

(3) What is the number of all potential fault sites in the following circuit? Derive the equivalence collapsed set. What is the collapse ratio? Now derive the dominance + equivalence collapsed set. What is the new collapse ratio? [15]