## Solutions to HW2

(1) Flip-flop. PHI 1 and PHI2 are the two non-overlapping clocks
(2) Flip-flop. In principle it is same as the circuit of problem 1.
(3) Out $=\overline{(A+B+C)}+\bar{A} B=\bar{A} \bar{B} \bar{C}+\bar{A} B$

(4) Out $=A \bar{B}+B C+\bar{C}$

(5) CLKG will be a glitched clock.

(6)


