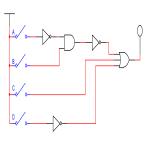


1) Convert the above A-I-O circuit to a **NOR only** circuit, then simplify by crossing out all redundant gates.



2) Convert the above A-I-O circuit to a  ${\color{red} {\bf NAND~only}}$  circuit, then simplify by crossing out all redundant gates.

