$$(H)(A+B)' = (AA+BB)' | Gate, A' = (AA+AA)' | Gate$$

$$Total 7 Gates, H Packages$$

$$() PQR+ST = ((PQ-R+ST)')'$$

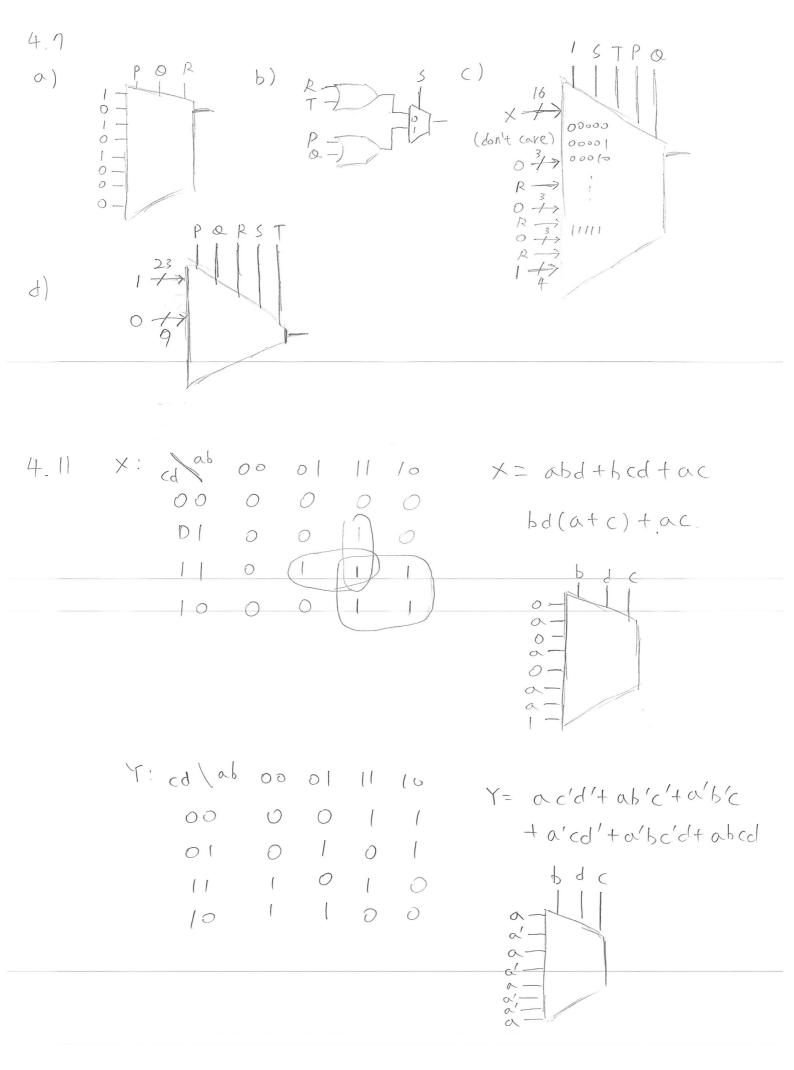
colotal 4 hates, 2 packages

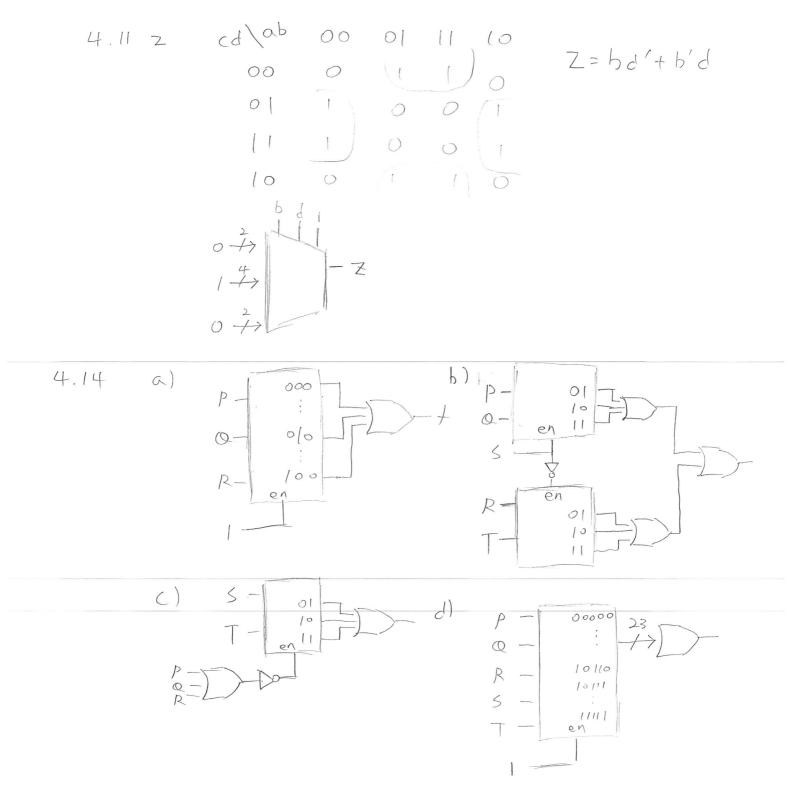
d)
$$f = (PQ + PRST)' = (PQ + (PR)(ST))'$$

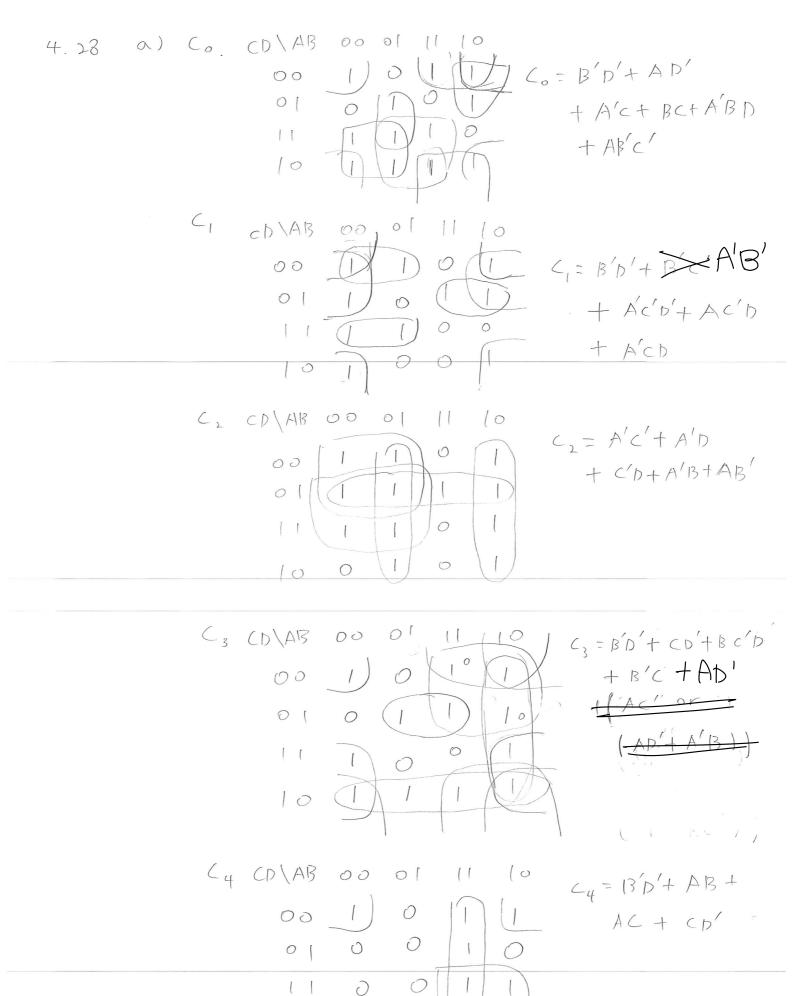
$$f = P - \sqrt{z}$$

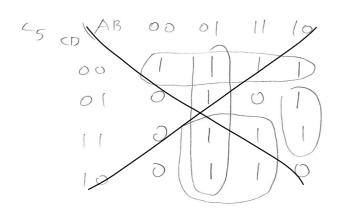
$$Q - \sqrt{z}$$

$$PR - \sqrt{sT - z}$$









C5= C'D'+ A'B+BC+ AB'D +A'BC'+BD'+ACD

$$C_6 = A'BC' + AB' + AD$$

+ $B'C + CD'$

