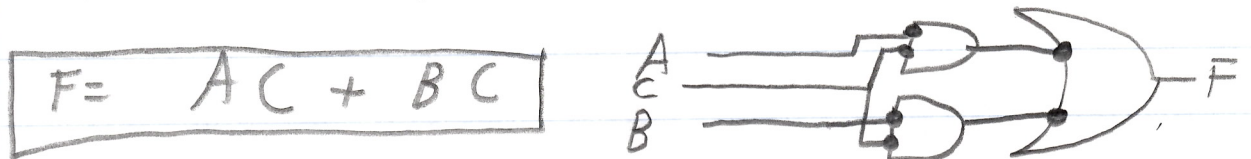


⑥ a) $F = (((A'B)' + B)' + B)C$ Given
 $((A+B') + B)' + B)C$ De Morgan's
 Associative

$((A + (B' + B) + B)C$
 $((A + B)C)$

Complementarity
 Distributive



⑥ b) $((A+B)' + (BC))' + (CB)'$ Given
 $(A'B' + BC)' + (C' + B')$ De Morgan's
 $[A+B)(B'+C')]' + (C' + B')$ De Morgan's
 $(AB + AC' + BB' + BC') + (C' + B')$ Distributive
 $(AB + AC' + BC') + (C' + B')$ Complementarity
 $(AB + AC') + (BC' + C') + B'$ Associative
 $(AB + AC') + C'(B+1) + B'$ Distributive
 $(AB + AC') + C'B + B'$ Identity

$AB + AC' + C'B + B'$

