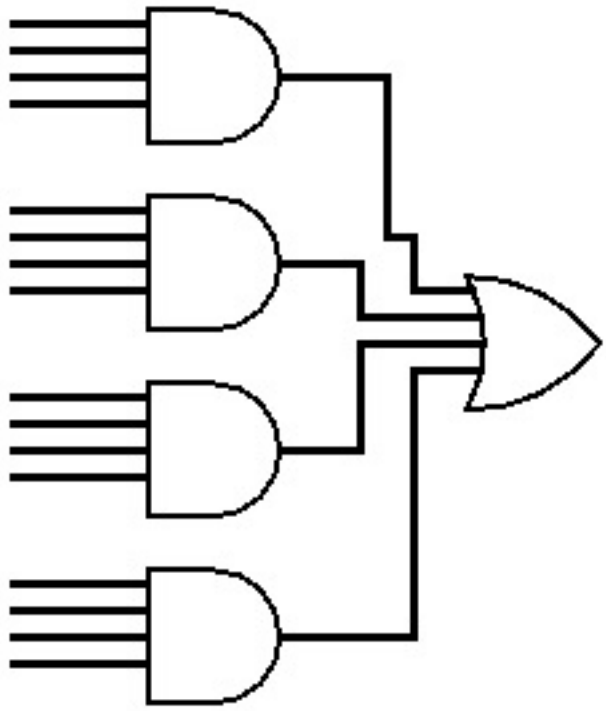
Kurt Medley
Problems - MB Ch 5 p78: 2,3,4,5,16,17,18,19,20,21,22,23

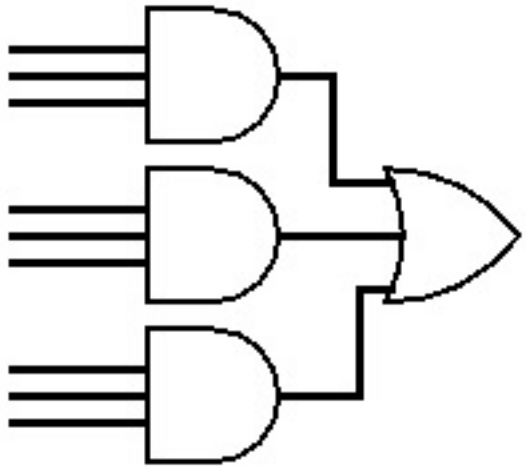
2. a) -A-BCD b) -AB-CD c) A-B-C-D d) AB-CD

3. This circuit represents the boolean equation Y= -A-B-CD + A-B-CD + AB-CD + ABC-D in descending order starting from the top AND gate into the OR gate.



4. Y = -A-B-CD + -ABC-D + ABC-D

5. This circuit represents the boolean equation Y= A-B-C-D + AB-C-D + ABCD in descending order starting from the top AND gate into the OR gate



16. $A + 0 = A$
17. $A * 1 = A$
18. $A + 1 = 1$
19. $A * 0 = 0$
20. $A(-A + B) = AB$
21. a) $A + B = B + A$
b) $AB = BA$
22. a) $A +(B + C) = (A + B) + C$
b) $A(BC) = (AB)C$
23. $A(B+C) = AB+AC$