



## Prom the specification of the circuit, determine the number of inputs and outputs and assign a symbol to each. Derive a truth table, assigning inputs to the left and outputs to the right. Place all possible combination of inputs i.e all 0's to all 1's Using the problem definition determine each output. If combinations are left without a specified output, mark them as don't cares. Simplify each output using K-map. Draw a circuit for each output per requirement ie. All NAND, all NOR, AND - OR, OR - AND, XOR, etc.















