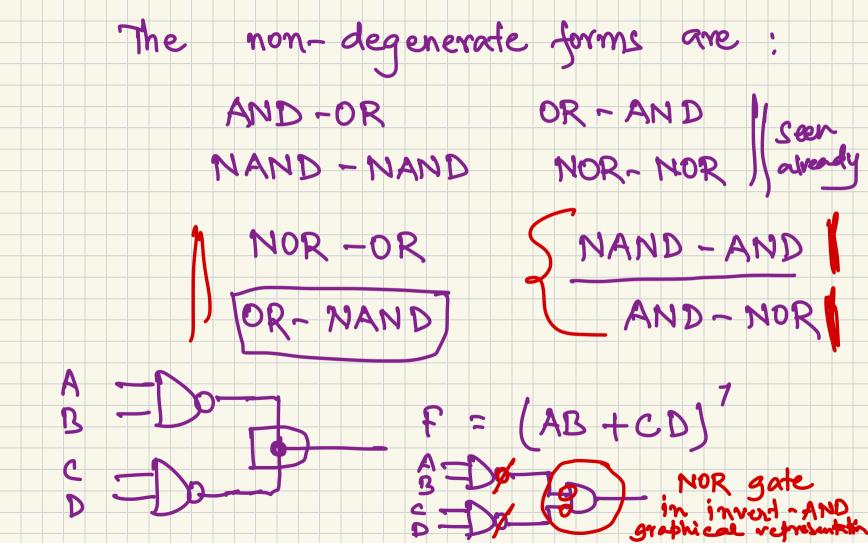
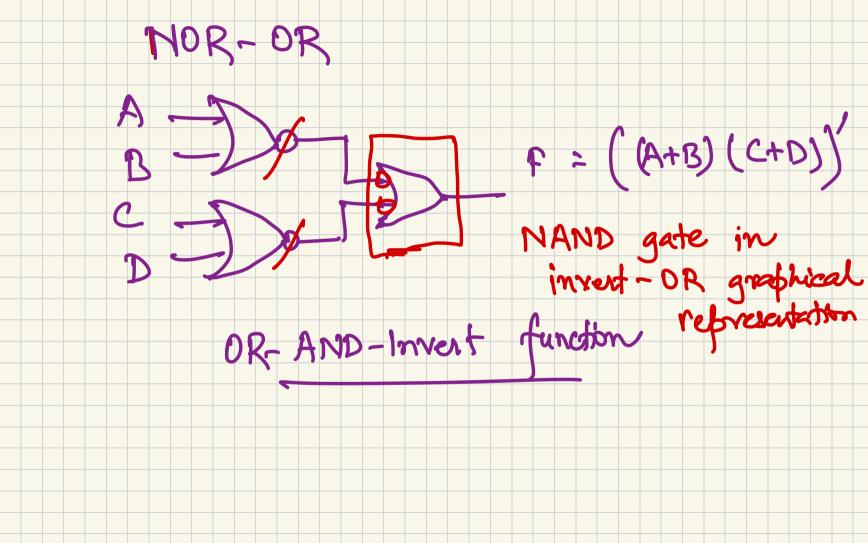
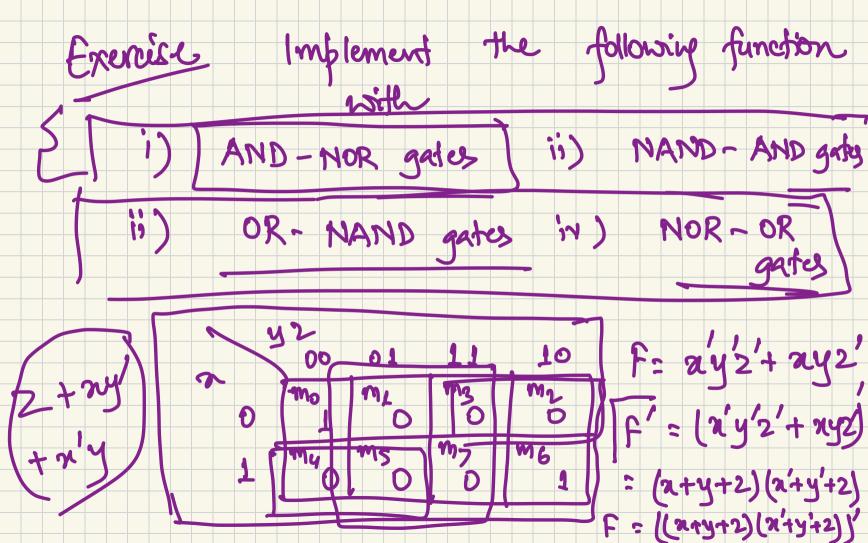
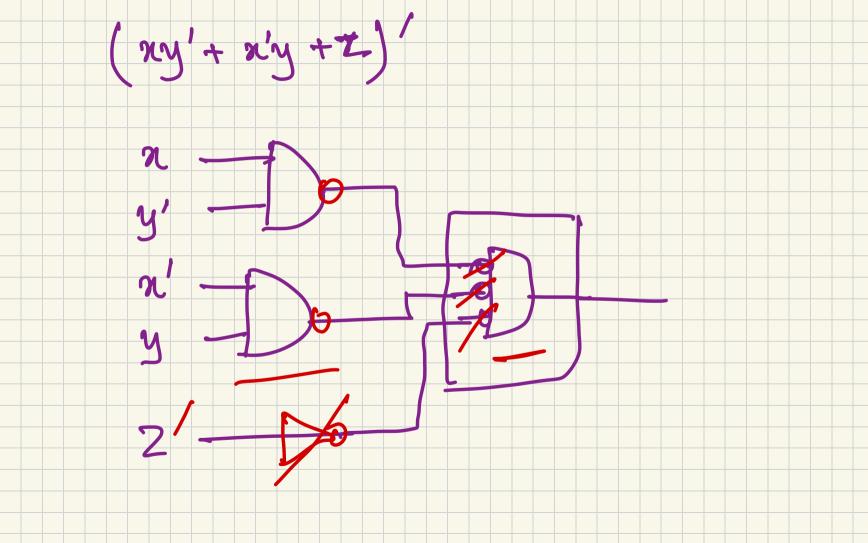
(29th Sept.) ACOL 215 Two-level implementations AND, OR, NAND, NOR gates AND-OR Sum of products standard representation 2 Product of sums OR-AND

Some combinations are degenerate. AND - AND NOR - NAND A+B+C+D What about NAND-NOR? (AND)





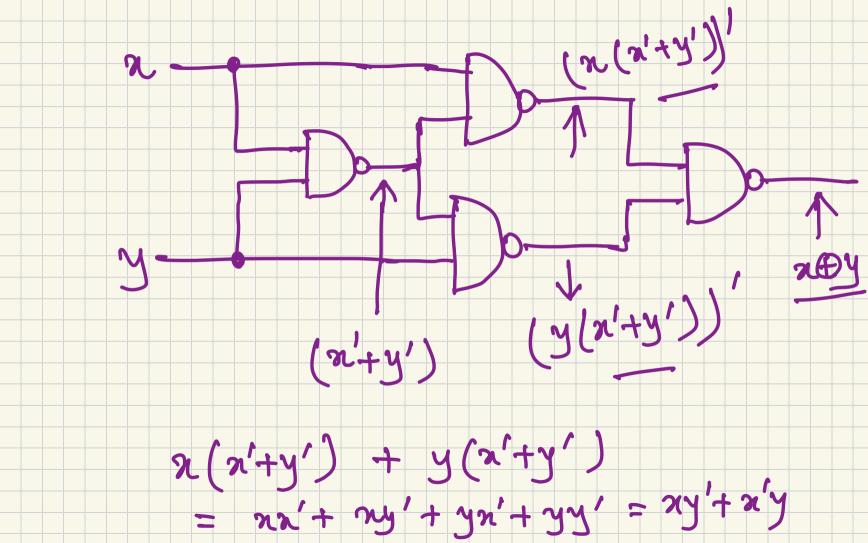


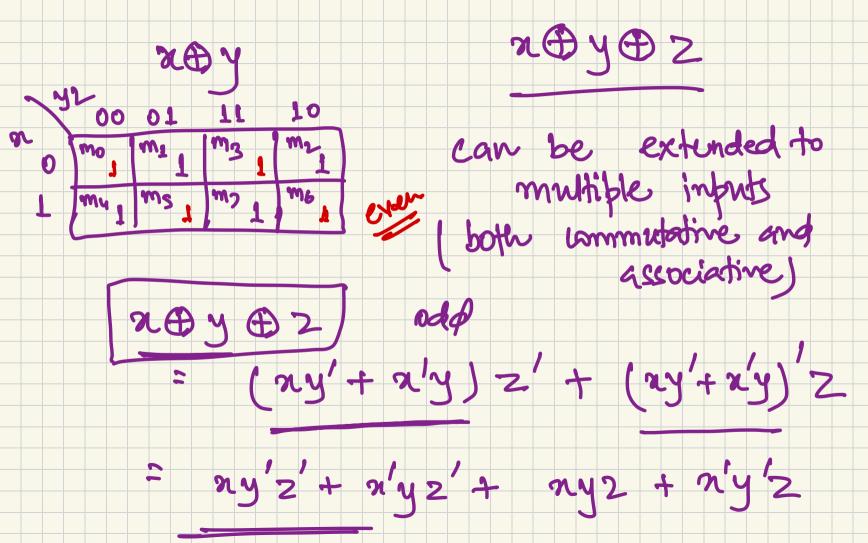


XOR gates (Exclusive -OR gates) 
$$\oplus$$
 $n \oplus y = \pi y' + \pi' y$ 

Exclusive -NOR (XNOR)

 $(n \oplus y)' = \pi y + \pi' y'$ 





3-input odd function even Parity generation and cheeking XOR functions are meful in systems requiring error detection and correction.

