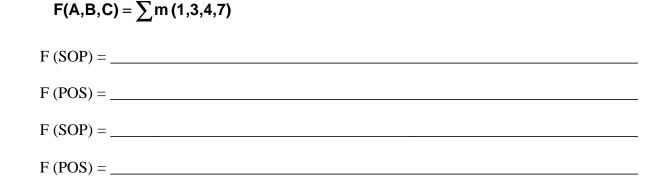
Dr. Bassem Al-Halabi, S&E362	Octobe	October 7, 2000	
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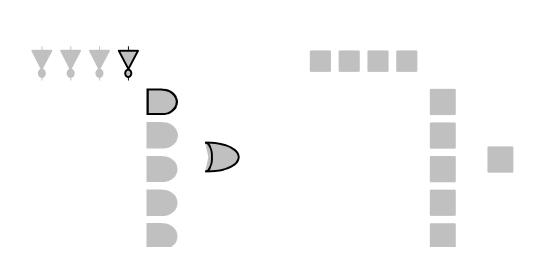
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 $\mathbf{F} = \mathbf{A} \ \overline{\mathbf{C}} \ \mathbf{D} + \mathbf{A} \ \overline{\mathbf{B}} \ \overline{\mathbf{C}} + \overline{\mathbf{A}} \ \mathbf{B} + \overline{\mathbf{D}}$

[4] 1) For the following given function, F, find the minterm and Maxterm expansions in canonical SOP and POS forms, respectively, for both F and its complement.



[4] 2) Implement the following function using a NOT-AND-OR network and then convert the network to all NAND network. (Please, use straight lines for connections. Use shaded areas to neatly outline your gates)



[2] 3) Dave can eat Candy (C) if he does his Homework (H) and he does *not* make a Mess (M), or if his father is Happy (F), or if his sister is *not* Jealous (J). Write a Boolean expression for C as a function of the four variable, H, M, F, and J.

